

LED Drivers

Constant Current



Case 3
Qty:100PCS

LE6 Series

Non-Dimmable, 6W Max

- Constant Current Design
- High Efficiency
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Non-Dimmable

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	25%
Start Time:	1000ms / 120VAC at full load

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	85°C
MTBF:	> 333,700 hours
Life Rating:	72,000 hours

Environmental

Operating Temp.:	-25 ~ +55°C
Storage Temp.:	-25 ~ +55°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 15V SCP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
6W - Constant Current										
CC	Non-Dimming	6W	120V	3	VEL6XXX120H-3	200-700	6	3-8	85.0	67/60
CC	Non-Dimming	6W	120V	3	VEL6XXX120M-3	200-700	6	3-8	85.0	67/60
CC	Non-Dimming	6W	120V	3	VEL2700120M-3	700	6	3-8	85.0	90/84

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	25%
Power Factor (min.):	0.9 at full load
Start Time:	1000ms / 120VAC at full load

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	85°C
MTBF:	> 333,700 hours
Life Rating:	72,000 hours

Environmental

Operating Temp.:	-25 ~ +55°C
Storage Temp.:	-25 ~ +55°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 15V SCP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B



Case 5
Qty: 60PCS

LE8 Series

Non-Dimmable, 8W Max

- Constant Current Design
- High Efficiency
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Non-Dimmable

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
8W - Constant Current										
CC	Non-Dimming	8W	120V	5	VEL8XXX120H-5	200-700	8	6-30	85.0	70/68
CC	Non-Dimming	8W	120V	5	VEL3700120H-5	700	8	8-12	85.0	70/68

LED Drivers

Constant Current

LPD



LPD12 Series

Phase Dimming, 12W Max

- Constant Current Design
- High Efficiency
- Phase Dimming (TRIAC)
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations
- Multiple Case Options

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47 - 63 Hz
THD (max.):	20%
Power Factor (min.):	0.9 at full load
Start Time:	500ms / 120VAC at full load

General Specifications

Dimming Type:	TRIAC Phase Dimming
Dimming Range:	5 - 100%
Max. Case Temp:	90 °C
MTBF:	> 333,700 hours
Life Rating:	72,000 hours

Environmental

Operating Temp.:	-25 ~ +55°C
Storage Temp.:	-40 ~ +65°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 42V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
12W - Constant Current										
CC	Phase Dimming	12W	120V	5	VEL12XXX120HDA-5	200-1050	12	10-34	85.0	90/84
CC	Phase Dimming	12W	120V	2	VEL12XXX120HDA-41	200-1050	12	10-34	85.0	90/84
CC	Phase Dimming	12W	120V	2	VEL12XXX120HDA-2	200-1050	12	10-34	85.0	90/84
CC	Phase Dimming	12W	120V	3	VEL12XXX120HDA-3	200-1050	12	10-34	85.0	90/84
CC	Phase Dimming	12W	120V	5/2/3	VEL12030120HDA-Y	300	12	22-28	85.0	90/84
					VEL12045120HDA-Y	450	12	22-28	85.0	90/84
					VEL12050120HDA-Y	500	12	22-28	85.0	90/84
					VEL12053120HDA-Y	530	12	16-21	85.0	90/84

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	25%
Power Factor (min.):	0.9 at full load
Start Time:	1000ms / 120VAC at full load

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	85°C
MTBF:	> 333,700 hours
Life Rating:	62,000 hours

Environmental

Operating Temp.:	-25 ~ +55°C
Storage Temp.:	-25 ~ +55°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 40V SCP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B



LMV12 Series

Non-Dimmable, 12W Max

- Constant Current Design
- High Efficiency
- Universal Input Voltage
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Non-Dimmable
- Multiple output current configurations
- Multiple Case Options

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)
12W - Constant Current									
CC	Non-Dimming	12W	120-277V	5	VEL12XXXMVH-5	200-1050	12	6-33	85.0
CC	Non-Dimming	12W	120-277V	32	VEL12020MVH-32	200-1050	12	6-33	85.0

LED Drivers

Constant Current



Waterproof Case 51
Qty: 125PCS

WL12 Series

Waterproof, Non-Dimmable, 12W Max

- Constant Current Design
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP66 Rated
- Fully Isolated
- Non-Dimmable
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	0.99
Start Time:	500ms

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	70°C
MTBF:	975,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-30 ~ +50°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 90% RH
Storage Humidity:	5 ~ 95% RH
IP Rating:	IP66, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 32V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I10/230V)	Type TL (°C)
12W - Constant Current										
CC	Non-Dimming	12W	100-277V	51	VEL12025MVH-51	250	12	24-48	85/86	
					VEL12030MVH-51	300	12	18-36	84/85	
					VEL12035MVH-51	350	12	18-36	84/85	
					VEL12045MVH-51	450	12	13-27	83/84	
					VEL12070MVH-51	700	12	8-17	82/83	
					VEL12100MVH-51	1000	12	6-12	80/81	

LED Drivers

Constant Current



Case 2
Qty: 100PCS

Case 5
Qty: 60PCS

Case 3
Qty: 100PCS

LMV12 Series

Non-Dimmable, 12W Max

- Constant Current Design
- High Efficiency
- Universal Input Voltage
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Non-Dimmable
- Multiple output current configurations
- Multiple Case Options

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	25%
Power Factor (min.):	0.9 at full load
Start Time:	1000ms / 120VAC at full load

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	85°C
MTBF:	> 333,700 hours
Life Rating:	62,000 hours

Environmental

Operating Temp.:	-25 ~ +55°C
Storage Temp.:	-25 ~ +55°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 40V SCP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
12W - Constant Current										
CC	Non-Dimming	12W	120-277V	5	VEL12XXXMVH-5	200-1050	12	6-36	85.0	90/84
CC	Non-Dimming	12W	120-277V	2	VEL12XXXMVH-2	200-1050	12	6-36	85.0	90/84
CC	Non-Dimming	12W	120-277V	3	VEL12XXXMVH-3	200-1050	12	6-36	85.0	90/84
CC	Non-Dimming	12W	120-277V	5/2/3	VEL12030MVH-Y	300	12	18-36	85.0	90/84
					VEL12050MVH-Y	500	12	12-24	85.0	90/84
					VEL12070MVH-Y	700	12	9-17	85.0	90/84

LED Drivers

Constant Current



LE12 Series

Non-Dimmable, 12W Max

- Constant Current Design
- High Efficiency
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Non-Dimmable
- Multiple output current configurations
- Multiple Case Options

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	25%
Power Factor (min.):	0.9 at full load
Start Time:	1000ms / 120VAC at full load

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	85°C
MTBF:	> 333,700 hours
Life Rating:	72,000 hours

Environmental

Operating Temp.:	-25 ~ +55°C
Storage Temp.:	-25 ~ +55°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 40V SCP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
12W - Constant Current										
CC	Non-Dimming	12W	120V	5	VEL12XXX120H-5	200-1050	12	6-33	85.0	90/84
CC	Non-Dimming	12W	120V	2	VEL12XXX120H-2	200-1050	12	6-33	85.0	90/84
CC	Non-Dimming	12W	120V	3	VEL12XXX120H-3	200-1050	12	6-33	85.0	90/84
CC	Non-Dimming	12W	120V	5/2/3	VEL12020120H-Y	200	12	18-33	85.0	90/84
					VEL12035120H-Y	350	12	18-33	85.0	90/84
					VEL12070120H-Y	700	12	10-17	85.0	90/84

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	25%
Power Factor (min.):	0.9 at full load
Start Time:	1000ms / 120VAC at full load

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	85°C
MTBF:	> 333,700 hours
Life Rating:	72,000 hours

Environmental

Operating Temp.:	-25 ~ +55°C
Storage Temp.:	-25 ~ +55°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 40V SCP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B



Case 4
Qty: 60PCS

LEI8 Series

Non-Dimmable, 18W Max

- Constant Current Design
- High Efficiency
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Non-Dimmable

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
18W - Constant Current										
CC	Non-Dimming	18W	120V	4	VEL18XXX120H-4	200-700	18	12-33	85.0	69/66
CC	Non-Dimming	18W	120V	4	VEL6700120H-4	700	18	15-24	85.0	69/66
					VEL6700120H(10.50) V2 H-4	500	18	18-33	85.0	69/66
					VEL6700120H(10.50)V2 L-4	500	18	13-24	85.0	69/66

LED Drivers

Constant Current



Case 11

LMV18 Series

Non-Dimmable, 18W Max

- Constant Current Design
- High Efficiency
- Universal Input Voltage
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Non-Dimmable

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	0.9
Start Time:	1000ms

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	80°C
MTBF:	1,000,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-20 ~ +55°C
Storage Temp.:	-20 ~ +85°C
Operating Humidity:	10 ~ 85% RH
Storage Humidity:	5 ~ 95% RH
IP Rating:	IP54, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 60V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)
18W - Constant Current									
CC	Non-Dimming	18W	100-277V	11	VEL18035MVH-11	350	18	33-52	80.0

LED Drivers

Constant Current

LPD



Case 2
Qty: 100PCS

Case 5
Qty: 60PCS

LPD19B Series

Phase Dimming, 19W Max

- Constant Current Design
- High Efficiency
- Phase Dimming (TRIAC)
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations
- Multiple Case Options

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47 - 63 Hz
THD (max.):	20%
Power Factor (min.):	0.9 at full load
Start Time:	500ms / 120VAC at full load

General Specifications

Dimming Type:	TRIAC Phase Dimming
Dimming Range:	5 - 100%
Max. Case Temp:	90 °C
MTBF:	> 333,700 hours
Life Rating:	72,000 hours

Environmental

Operating Temp.:	-25 ~ +55°C
Storage Temp.:	-40 ~ +65°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 42V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Non-Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)
19W - Constant Current									
CC	Phase Dimming	19W	120V	2	VEL19XXX120HDB-2	500-1050	19	15-38	83.0
CC	Phase Dimming	19W	120V	5	VEL19XXX120HDB-5	500-1050	19	15-38	83.0

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47 - 63 Hz
THD (max.):	20%
Power Factor (min.):	0.9 at full load
Start Time:	500ms / 120VAC at full load

General Specifications

Dimming Type:	TRIAC Phase Dimming
Dimming Range:	5 - 100%
Max. Case Temp:	90 °C
MTBF:	> 333,700 hours
Life Rating:	72,000 hours

Environmental

Operating Temp.:	-25 ~ +55°C
Storage Temp.:	-40 ~ +65°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 42V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B



Case 2
Qty: 100PCS

Case 5
Qty: 60PCS

LPD19 Series

Phase Dimming, 19W Max

- Constant Current Design
- High Efficiency
- Phase Dimming (TRIAC)
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations
- Multiple Case Options

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
19W - Constant Current										
CC	Phase Dimming	19W	120V	5	VEL19XXX120HDA-5	500-1050	19	15-39	83.0	88/64
CC	Phase Dimming	19W	120V	2	VEL19XXX120HDA-2	500-1050	19	15-39	83.0	85/66
CC	Phase Dimming	19W	120V	5/2	VEL19045120HDA-Y	450	19	27-36	83.0	
					VEL19048120HDA-Y	480	19	30-39	83.0	
					VEL19060120HDA-Y	600	19	24-34	83.0	
					VEL19070120HDA-Y	700	19	22-28	83.0	
					VEL19090120HDA-Y	900	19	15-21	83.0	

LED Drivers

Constant Current

Case 5
Qty: 60PCS



Case 29

LMV19 Series

Non-Dimmable, 19W Max

- Constant Current Design
- High Efficiency
- Universal Input Voltage
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Non-Dimmable
- Multiple output current configurations
- Multiple Case Options

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	25%
Power Factor (min.):	0.9 at full load
Start Time:	1000ms / 120VAC at full load

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	85°C
MTBF:	> 333,700 hours
Life Rating:	72,000 hours

Environmental

Operating Temp.:	-25 ~ +55°C
Storage Temp.:	-25 ~ +55°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 40V SCP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)
19W - Constant Current									
CC	Non-Dimming	19W	120-277V	5	VEL19XXXMVH-5	350-1050	19	10-33	85.0
CC	Non-Dimming	19W	120-277V	29	VEL19XXXMVH-29	350-1050	19	18-33	85.0

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	25%
Power Factor (min.):	0.9 at full load
Start Time:	1000ms / 120VAC at full load

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	85°C
MTBF:	> 333,700 hours
Life Rating:	72,000 hours

Environmental

Operating Temp.:	-25 ~ +55°C
Storage Temp.:	-25 ~ +55°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 40V SCP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B



LMV19 Series

Non-Dimmable, 19W Max

- Constant Current Design
- High Efficiency
- Universal Input Voltage
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Non-Dimmable
- Multiple output current configurations
- Multiple Case Options

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
19W - Constant Current										
CC	Non-Dimming	19W	120-277V	5	VEL19XXXMVH-5	200-1050	19	10-36	85.0	81/77
CC	Non-Dimming	19W	120-277V	3	VEL19XXXMVH-2	200-1050	19	10-36	85.0	81/77
CC	Non-Dimming	19W	120-277V	3/5	VEL19060MVH-Y	600	19	18-32	85.0	81/77

LED Drivers

Constant Current



LE19 Series

Non-Dimmable, 19W Max

- Constant Current Design
- High Efficiency
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Non-Dimmable
- Multiple output current configurations
- Multiple Case Options

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	25%
Power Factor (min.):	0.9 at full load
Start Time:	1000ms / 120VAC at full load

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	85°C
MTBF:	> 333,700 hours
Life Rating:	72,000 hours

Environmental

Operating Temp.:	-25 ~ +55°C
Storage Temp.:	-25 ~ +55°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 40V SCP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
19W - Constant Current										
CC	Non-Dimming	19W	120V	5	VEL19XXX120H-5	200-1050	19	10-39	85.0	81/77
CC	Non-Dimming	19W	120V	2	VEL19XXX120H-2	200-1050	19	10-39	85.0	81/77
CC	Non-Dimming	19W	120V	2/5/29	VEL19050120H-Y	500	19	18-33	85.0	81/77
					VEL19070120H-Y	700	19	14-27	85.0	81/77
					VEL19090120H-Y	900	19	14-21	85.0	81/77

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	0.9
Start Time:	1000ms

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	85°C
MTBF:	975,00 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-20 ~ +55°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 85% RH
Storage Humidity:	5 ~ 95% RH
IP Rating:	IP54, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 35V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B



Case 13

LMV20 Series

Non-Dimmable, 20W Max

- Constant Current Design
- High Efficiency
- Universal Input Voltage
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Non-Dimmable

SPECIFICATIONS

LMV

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)
20W - Constant Current									
CC	Non-Dimming	20W	120-277V	13	VEL20070MVH-13	700	20	14-29	80.0

Electrical Characteristics

No. of Channels:	1
Input Frequency:	60 Hz
THD (max.):	20%
Power Factor (min.):	0.9
Start Time:	1000ms

General Specifications

Dimming Type:	TRIAC Phase Dimming
Dimming Range:	10 - 100%
Max. Case Temp:	400mA, 500mA: 80°C, 700mA, 1050mA: 90°C
MTBF:	975,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-25 ~ +55°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 85% RH
Storage Humidity:	5 ~ 95% RH
IP Rating:	IP54, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 60V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B



Case 13

LPD20 Series

Phase Dimming, 20W Max

- Constant Current Design
- High Efficiency
- Phase Dimming (TRIAC)
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)
20W - Constant Current									
CC	Phase Dimming	20W	120V	13	VEL20XXX120HDA-13	400-1050	20	10-50	80.0

LED Drivers

Constant Current



Waterproof Case 52
Qty: 50PCS

WLD25 Series

Waterproof, 0-10V Dimming, 25W Max

- Constant Current Design
- 0-10V Dimming
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP66 rated
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47-63 Hz
THD (max.):	20%
Power Factor (min.):	0.99
Start Time:	1.0-2.0 sec

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	10-100%
Max. Case Temp:	85°C
MTBF:	470,000 hours
Life Rating:	85,000 hours

Environmental

Operating Temp.:	-35 ~ +70°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 100% RH
Storage Humidity:	5 ~ 100% RH
IP Rating:	IP66, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 42V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 EN55015, FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% @ 110/230V)	Type TL (°C)
25W - Constant Current										
CC	0-10V Dimming	25W	120-277V	52	VEL25035MVHDB-10V-52	350	25	36-72	88/89	
					VEL25045MVHDA-10V-52	450	25	28-55	87/88	
					VEL25053MVHDA-10V-52	530	25	24-47	86/87	
					VEL25070MVHDA-10V-52	700	25	18-36	86/87	
					VEL25105MVHDA-10V-52	1050	25	12-24	85/86	
					VEL25120MVHDA-10V-52	1200	25	10-21	84/85	
					VEL25140MVHDA-10V-52	1400	25	9-18	83/84	
					VEL25175MVHDA-10V-52	1750	25	7-14	82/83	
					VEL25210MVHDA-10V-52	2100	25	6-12	81/82	

LED Drivers

Constant Current

LPD



Case 2
Qty: 100PCS

Case 5
Qty: 60PCS

LPD25 Series

Phase Dimming, 25W Max

- Constant Current Design
- High Efficiency
- Phase Dimming (TRIAC)
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47 - 63 Hz
THD (max.):	20%
Power Factor (min.):	0.9 at full load
Start Time:	1000ms / 120VAC at full load

General Specifications

Dimming Type:	TRIAC Phase Dimming
Dimming Range:	5 - 100%
Max. Case Temp:	85°C
MTBF:	> 333,700 hours
Life Rating:	72,000 hours

Environmental

Operating Temp.:	-25 ~ +55°C
Storage Temp.:	-40 ~ +80°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 40V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
25W - Constant Current										
CC	Phase Dimming	25W	120V	5	VEL25XXX120HDA-5	200-1200	25	10-52	83.0	88/64
CC	Phase Dimming	25W	120V	2	VEL25XXX120HDA-2	200-1200	25	10-52	83.0	
CC	Phase Dimming	25W	120V	5	VEL19045120HDA-Y	600	25	32-42	83.0	85/68

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47-63 Hz
THD (max.):	20%
Power Factor (min.):	0.99
Start Time:	1.0-2.0 sec

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	85°C
MTBF:	470,000 hours
Life Rating:	85,000 hours

Environmental

Operating Temp.:	-35 ~ +70°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 100% RH
Storage Humidity:	5 ~ 100% RH
IP Rating:	IP66, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 40V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B



Waterproof Case 52
Qty: 50PCS

WL25 Series

Waterproof, Non-Dimmable, 25W Max

- Constant Current Design
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP66 Rated
- Fully Isolated
- Non-Dimmable
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I 10/230V)	Type TL (°C)
25W - Constant Current										
CC	Non-Dimming	25W	120-277V	52	VEL25035MVHB-52	350	25	36-72	88/89	
					VEL25045MVH-52	450	25	28-55	87/88	
					VEL25053MVH-52	530	25	24-47	86/87	
					VEL25070MVH-52	700	25	18-36	86/87	
					VEL25105MVH-52	1050	25	12-24	85/86	
					VEL25120MVH-52	1200	25	10-21	84/85	
					VEL25140MVH-52	1400	25	9-18	83/84	
					VEL25175MVH-52	1750	25	7-14	82/83	
					VEL25210MVH-52	2100	25	6-12	81/82	

Retroflex LED Drivers

Constant Current

VEL30BN-2C-10V

Family:	RetroFlex
Driver Type:	Constant Current
Lamp Operation:	Parallel
Input Voltage:	120-277
Input Frequency:	50/60 Hz
Dimming:	0-10V Dimming
RoHS:	Yes

Performance

- Meets ANSI Standard C82.11
- Meets ANSI Standard C62.41
- Meets FCC Part 18 (Class A) for EMI and RFI
- Active Power Factor Correction

Application

- Minimum starting temperature: - 0°F, - 18°C
- Maximum case temperature: 105°F, 40°C
- Sound Rated: A
- Remote Mounting: 18 ft. max. lead length

Safety

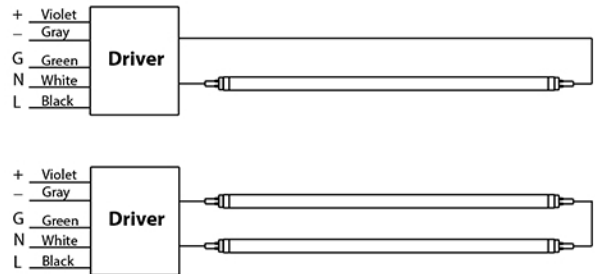
- No PCB's
- UL Listed (Type 1 Outdoor, Dry or Damp locations)
- RoHS Compliance



VEL30BN-2C-10V

0-10V Dimming, 30W 2 Channel

- Constant Current Design
- Universal Input Voltage
- 0-10V Dimming
- 5-year Warranty
- 100% Full Load Burn-in Test
- Active Power Factor Correction



SPECIFICATIONS

L24T8

1	2	Output Current
ON	OFF	210 mA



L48T8

1	2	Output Current
OFF	OFF	240 mA



L96T8

1	2	Output Current
OFF	ON	150 mA



30W 2 Channel

Retroflex LED Lamp	Lamp Power	No. of Lamps	Input Voltage	Input Power	Nominal Line Current (A)	Power Factor	MAXTHD (%)
L24T8/8XX/8G-EB	8W	2	120-277V	23W	0.202	>0.90	10
L24T8/8XX/8G-EB	8W	1	120-277V	12W	0.110	>0.90	10
L48T8/8XX/12G-EB	12W	2	120-277V	29W	0.254	>0.90	10
L48T8/8XX/15G-EB	15W	2	120-277V	36W	0.297	>0.90	10
L48T8/8XX/12G-EB-AC	12W	2	120-277V	30W	0.280	>0.90	10
L48T8/8XX/15G-EB-AC	15W	2	120-277V	33W	0.270	>0.90	10
L48T8/8XX/12G-EB	12W	1	120-277V	17W	0.145	>0.90	10
L48T8/8XX/15G-EB	15W	1	120-277V	20W	0.171	>0.90	10
L48T8/8XX/12G-EB-AC	12W	1	120-277V	17W	0.150	>0.90	10
L48T8/8XX/15G-EB-AC	15W	1	120-277V	19W	0.158	>0.90	10
L96T8/8XX/24G-EB	24W	1	120-277V	30W	0.267	>0.90	10

LED Drivers

Constant Current

LD



Case 43
Qty: 50PCS

LD30 Series

0-10V Dimming, 30W Max

- Constant Current Design
- High Efficiency
- 0-10V Dimming
- Universal Input Voltage
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	0.9
Start Time:	1000ms

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	10-100%
Max. Case Temp:	80°C
MTBF:	1,000,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-25 ~ +55°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 85% RH
Storage Humidity:	5 ~ 95% RH
IP Rating:	IP54, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 48V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
30W - Constant Current										
CC	0-10V Dimming	30W	120-277V	43	VEL30XXXMVHDA-10V-43	200-2500	30	12-55	83.0	79/57
CC	0-10V Dimming	30W	120-277V	43	VEL30054MVHDA-10V-43	540	30	28-42	83.0	79/57
					VEL30075MVHDA-10V-43	750	30	24-40	83.0	79/57
					VEL30100MVHDA-10V-43	1000	30	20-30	83.0	79/57

LED Drivers

Constant Current

LPD

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47 - 63 Hz
THD (max.):	20%
Power Factor (min.):	0.9 at full load
Start Time:	1000ms / 120VAC at full load

General Specifications

Dimming Type:	TRIAC Phase Dimming
Dimming Range:	5 - 100%
Max. Case Temp:	85°C
MTBF:	> 333,700 hours
Life Rating:	72,000 hours

Environmental

Operating Temp.:	-25 ~ +55°C
Storage Temp.:	-40 ~ +80°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 40V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B



Case 25
Qty: 40PCS

LPD30 Series

Phase Dimming, 30W Max

- Constant Current Design
- High Efficiency
- Phase Dimming (TRIAC)
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
30W - Constant Current										
CC	Phase Dimming	30W	120V	25	VEL30XXX120HDA-25	700-1700	30	17.7-36	83.0	87/58
CC	Phase Dimming	30W	120V	25	VEL30090120HDA-25	900	30	24-33	83.0	87/58
					VEL30105120HDA-25	1050	30	21-28	83.0	87/58

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	25%
Power Factor (min.):	0.9 at full load
Start Time:	1000ms / 120VAC at full load

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	85°C
MTBF:	> 333,700 hours
Life Rating:	72,000 hours

Environmental

Operating Temp.:	-20 ~ +55°C
Storage Temp.:	-25 ~ +55°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 35V SCP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B



Case 4
Qty: 60PCS

Case 27
Qty: 30PCS

LMV30 Series

Non-Dimmable, 30W Max

- Constant Current Design
- High Efficiency
- Universal Input Voltage
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Non-Dimmable
- Multiple output current configurations
- Multiple Case Options

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)
30W - Constant Current									
CC	Non-Dimming	30W	120-277V	4	VEL30XXMVH-4	1050-1700	30	9-28	87.0
CC	Non-Dimming	30W	120-277V	27	VEL30XXMVH-27	1050-1700	30	9-28	87.0

LED Drivers

Constant Current



Case 33

LMV30 Series

Non-Dimmable, 30W Max

- Constant Current Design
- High Efficiency
- Universal Input Voltage
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Non-Dimmable
- Multiple output current configurations

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47-63 Hz
THD (max.):	20%
Power Factor (min.):	> 0.95
Start Time:	1-2 sec

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	85°C
MTBF:	450,000 hours
Life Rating:	80,000 hours

Environmental

Operating Temp.:	-35 ~ +60°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 100% RH
Storage Humidity:	5 ~ 100% RH
IP Rating:	IP66, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 50V SCP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I10/220V)
30W - Constant Current									
CC	Non-Dimming	30W	90-305V	33	VEL30XXMVHA-33	700-1050	30	17-43	84/86

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47-63 Hz
THD (max.):	20%
Power Factor (min.):	> 0.95
Start Time:	1-2 sec

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	85°C
MTBF:	450,000 hours
Life Rating:	80,000 hours

Environmental

Operating Temp.:	-35 ~ +60°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 100% RH
Storage Humidity:	5 ~ 100% RH
IP Rating:	IP66, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 100V SCP, OVP
Safety and EMC:	UL/cUL, UL8750 Non-Class 2



Case 33

LMV30B Series

Non-Dimmable, 30W Max

- Constant Current Design
- High Efficiency
- Universal Input Voltage
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Non-Dimmable

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% 110/220V)
30W - Constant Current									
CC	Non-Dimming	30W	90-305V	33	VEL30035MVHB-33	350	30	52-86	86/88

LED Drivers

Constant Current



Case 4
Qty: 60PCS

Case 42
Qty: 30PCS

LMV30 Series

Non-Dimmable, 30W Max

- Constant Current Design
- High Efficiency
- Universal Input Voltage
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Non-Dimmable

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	0.9
Start Time:	1000ms

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	95°C
MTBF:	850,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-20 ~ +55°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 85% RH
Storage Humidity:	5 ~ 95% RH
IP Rating:	IP54, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 50V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
30W - Constant Current										
CC	Non-Dimming	30W	120-277V	4	VEL30XXXMVH-4	1000-1700	30	17.6-30	83.0	83/53
CC	Non-Dimming	30W	120-277V	42	VEL30XXXMVH-42	1000-1700	30	17.6-30	83.0	83/53

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	25%
Power Factor (min.):	0.9 at full load
Start Time:	1000ms / 120VAC at full load

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	85°C
MTBF:	> 333,700 hours
Life Rating:	72,000 hours

Environmental

Operating Temp.:	-25 ~ +55°C
Storage Temp.:	-25 ~ +55°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 40V SCP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B



LE30 Series

Non-Dimmable, 30W Max

- Constant Current Design
- High Efficiency
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Non-Dimmable
- Multiple output current configurations

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
30W - Constant Current										
CC	Non-Dimming	30W	120V	4	VEL30XXX120H-4	1000-1700	30	17.6-30	83.0	83/53
CC	Non-Dimming	30W	120V	42	VEL30XXX120H-42	1000-1700	30	17.6-30	83.0	83/53
CC	Non-Dimming	30W	120V	4	VEL30105120H-4	1050	30	16-28	83.0	83/53
					VEL30120120H-4	1200	30	18-30	83.0	83/53

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	>0.95
Start Time:	1000 ms / 120VAC at full load

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	1-100%
Max. Case Temp:	85°C
MTBF:	450,000 hours
Life Rating:	80,000 hours

Environmental

Operating Temp.:	-20 ~ +55°C
Storage Temp.:	-25 ~ +55°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 40V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B



Case 35
Qty: 25PCS

LD40 Series

0-10V Dimming, 40W Max

- Constant Current Design
- High Efficiency
- 0-10V Dimming
- Universal Input Voltage
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
40W - Constant Current										
CC	0-10V Dimming	40W	120-277V	35	VEL40XXXMVHDA-10V-35	3080Max	40	13-36	87.0	86/64

LED Drivers

Constant Current

LPD



Case 25
Qty: 40PCS

LPD40 Series

Phase Dimming, 40W Max

- Constant Current Design
- High Efficiency
- Phase Dimming (TRIAC)
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47 - 63 Hz
THD (max.):	20%
Power Factor (min.):	0.9 at full load
Start Time:	1000ms / 120VAC at full load

General Specifications

Dimming Type:	TRIAC Phase Dimming
Dimming Range:	5 - 100%
Max. Case Temp:	85°C
MTBF:	> 333,700 hours
Life Rating:	72,000 hours

Environmental

Operating Temp.:	-25 ~ +55°C
Storage Temp.:	-40 ~ +80°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 40V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
40W - Constant Current										
CC	Phase Dimming	40W	120V	25	VEL40XXX120HDA-25	1400-2500	40	16-28	83.0	82/77
CC	Phase Dimming	40W	120V	25	VEL40140120HDA-25	1400	40	21-28	83.0	82/77
					VEL40150120HDA-25	1500	40	22-26	83.0	82/77

LED Drivers

Constant Current



LMV40 Series

Non-Dimmable, 40W Max

- Constant Current Design
- High Efficiency
- Universal Input Voltage
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Non-Dimmable
- Multiple output current configurations
- Multiple Case Options

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	25%
Power Factor (min.):	0.9 at full load
Start Time:	1000ms / 120VAC at full load

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	85°C
MTBF:	> 333,700 hours
Life Rating:	72,000 hours

Environmental

Operating Temp.:	-20 ~ +55°C
Storage Temp.:	-25 ~ +55°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 36V SCP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
40W - Constant Current										
CC	Non-Dimming	40W	120-277V	4	VEL40XXXMVH-4	1800-2500	40	16-22.2	83.0	88/79
					VEL40XXXMVHA-4	650-2500	40	16-55	83.0	86/72
CC	Non-Dimming	40W	120-277V	47	VEL40XXXMVH-47	1800-2500	40	16-22.2	83.0	88/79
					VEL40XXXMVHA-47	650-2500	40	16-55	83.0	86/72

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	0.99
Start Time:	500ms

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	70°C
MTBF:	975,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-30 ~ +50°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 90% RH
Storage Humidity:	5 ~ 95% RH
IP Rating:	IP66, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 32V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B



Waterproof Case 53
Qty: 25PCS

WL40 Series

Waterproof, Non-Dimmable, 40W Max

- Constant Current Design
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP66 Rated
- Fully Isolated
- Non-Dimmable
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I 10/230V)	Type TL (°C)
40W - Constant Current										
CC	Non-Dimming	40W	120-277V	53	VEL40035MVHB-53-2	350	40	57-114	89/90	
					VEL40035MVHB-53-2	450	40	44-89	88.5/89.5	
					VEL40035MVHB-53-2	700	40	28-54	87.5/88.5	
					VEL40035MVHB-53-2	1050	40	19-37	87/88	
					VEL40035MVHB-53-2	1400	40	14-29	86.5/87.5	
					VEL40035MVHB-53-2	1750	40	11-23	85/86	
					VEL40035MVHB-53-2	2100	40	9-19	84/85	
					VEL40035MVHB-53-2	2450	40	8-16	83.5/84.5	
					VEL40035MVHB-53-2	2800	40	7-14	82.5/84	
					VEL40035MVHB-53-2	3150	40	6-12	81.5/83	

LED Drivers

Constant Current



Waterproof Case 53
Qty: 25PCS

WLD40 Series

Waterproof, 0-10V Dimming, 40W Max

- Constant Current Design
- 0-10V Dimming
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP66 rated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47-63 Hz
THD (max.):	20%
Power Factor (min.):	0.99
Start Time:	1.0-2.0 sec

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	10-100%
Max. Case Temp:	85°C
MTBF:	470,000 hours
Life Rating:	85,000 hours

Environmental

Operating Temp.:	-35 ~ +70°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 100% RH
Storage Humidity:	5 ~ 100% RH
IP Rating:	IP66, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 130V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Non-Class 2 EN55015, FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I 10/230V)	Type TL (°C)
40W - Constant Current										
CC	0-10V Dimming	40W	120-277V	53	VEL40035MVHDB-10V-53-2	350	40	57-114	89/90	
					VEL40045MVHDB-10V-53-2	450	40	44-89	88.5/89.5	
					VEL40070MVHDA-10V-53-2	700	40	28-54	87.5/88.5	
					VEL40105MVHDA-10V-53-2	1050	40	19-37	87/88	
					VEL40140MVHDA-10V-53-2	1400	40	14-29	86.5/87.5	
					VEL40175MVHDA-10V-53-2	1750	40	11-23	85/86	
					VEL40210MVHDA-10V-53-2	2100	40	9-19	84/85	
					VEL40245MVHDA-10V-53-2	2450	40	8-16	83.5/84.5	
					VEL40280MVHDA-10V-53-2	2800	40	7-14	82.5/84	
					VEL40315MVHDA-10V-53-2	3150	40	6-12	81.5/83	

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47-63 Hz
THD (max.):	20%
Power Factor (min.):	0.99
Start Time:	1.0-2.0 sec

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	10-100%
Max. Case Temp:	85°C
MTBF:	470,000 hours
Life Rating:	85,000 hours

Environmental

Operating Temp.:	-35 ~ +70°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 100% RH
Storage Humidity:	5 ~ 100% RH
IP Rating:	IP66, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 130V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Non-Class 2 EN55015, FCC Part 15 Class B



Waterproof Case 53
Qty: 25PCS

WLD40 Series

Waterproof, 0-10V Dimming, 40W Max

- Constant Current Design
- 0-10V Dimming
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP67 rated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I10/230V)	Type TL (°C)
40W - Constant Current										
CC	0-10V Dimming	40W	120-277V	53	VEL40035MVHDB-10V-53-1	350	40	38-114	87/88	
					VEL40045MVHDB-10V-53-1	450	40	30-89	87/88	
					VEL40070MVHDA-10V-53-1	700	40	18-54	86/87	
					VEL40090MVHDA-10V-53-1	900	40	18-45	86/87	
					VEL40105MVHDA-10V-53-1	1050	40	12-36	86/87	
					VEL40120MVHDA-10V-53-1	1200	40	11-33	86/87	
					VEL40140MVHDA-10V-53-1	1400	40	10-29	86/87	
					VEL40166MVHDA-10V-53-1	1660	40	8-24	85/86	
					VEL40182MVHDA-10V-53-1	1820	40	12-22	85/86	
					VEL40200MVHDA-10V-53-1	2000	40	10-20	84/85	
					VEL40222MVHDA-10V-53-1	2220	40	6-18	84/85	
					VEL40333MVHDA-10V-53-1	3330	40	4-12	83/84	

LED Drivers

Constant Current



Waterproof Case 53
Qty: 25PCS

WL40 Series

Waterproof, Non-Dimmable, 40W Max

- Constant Current Design
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP66 Rated
- Fully Isolated
- Non-Dimmable
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	0.99
Start Time:	500ms

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	70°C
MTBF:	975,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-30 ~ +50°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 90% RH
Storage Humidity:	5 ~ 95% RH
IP Rating:	IP66, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 32V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I 10/230V)	Type TL (°C)
40W - Constant Current										
CC	Non-Dimming	40W	120-277V	53	VEL40035MVHB-53-1	350	40	38-114	87/88	
					VEL40045MVHB-53-1	450	40	30-89	87/88	
					VEL40070MVH-53-1	700	40	18-54	86/87	
					VEL40090MVH-53-1	900	40	18-45	86/87	
					VEL40105MVH-53-1	1050	40	12-36	86/87	
					VEL40120MVH-53-1	1200	40	11-33	86/87	
					VEL40140MVH-53-1	1400	40	10-29	86/87	
					VEL40166MVH-53-1	1660	40	8-24	85/86	
					VEL40182MVH-53-1	1820	40	12-22	85/86	
					VEL40200MVH-53-1	2000	40	10-20	84/85	
					VEL40222MVH-53-1	2220	40	6-18	84/85	
					VEL40333MVH-53-1	3330	40	4-12	83/84	

LED Drivers

Constant Current



LE40 Series

Non-Dimmable, 40W Max

- Constant Current Design
- High Efficiency
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Non-Dimmable
- Multiple output current configurations

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	25%
Power Factor (min.):	0.9 at full load
Start Time:	1000ms / 120VAC at full load

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	85°C
MTBF:	> 333,700 hours
Life Rating:	62,000 hours

Environmental

Operating Temp.:	-25 ~ +55°C
Storage Temp.:	-25 ~ +55°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 40V SCP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
40W - Constant Current										
CC	Non-Dimming	40W	120V	4	VEL40XXX120H-4	1800-2500	40	16-22.2	83.0	88/79
CC	Non-Dimming	40W	120V	47	VEL40XXX120H-47	1800-2500	40	10-39	83.0	88/79
CC	Non-Dimming	40W	120V	4	VEL40XXX120HA-4	650-2500	40	16-55	83.0	86/72
CC	Non-Dimming	40W	120V	47	VEL40XXX120HA-47	650-2500	40	16-55	83.0	86/72
CC	Non-Dimming	40W	120V	4	VEL40140120H-4	1400	40	16-28	83.0	88/79
					VEL40180120H-4	1800	40	12-22	83.0	88/79

Retroflex LED Drivers

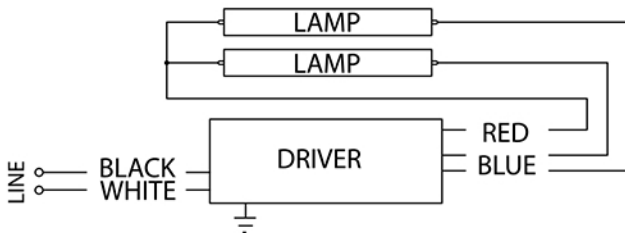
Constant Current



VEL50BN-2C

Non-Dimming, 50W 2 Channel

- Constant Current Design
- Universal Input Voltage
- Non-Dimmable
- 5-year Warranty
- 100% Full Load Burn-in Test
- Active Power Factor Correction



VEL50BN-2C

Family:	RetroFlex
Driver Type:	Constant Current
Lamp Operation:	Parallel
Input Voltage:	120-277
Input Frequency:	50/60 Hz
Dimming:	No
RoHS:	Yes

Performance

Meets ANSI Standard C82.11
Meets ANSI Standard C62.41
Meets FCC Part 18 (Class A) for EMI and RFI
Active Power Factor Correction

Application

Minimum starting temperature:	- 20°F, - 28.8°C
Maximum case temperature:	105°F, 40°C
Sound Rated:	A
Remote Mounting:	18 ft. max. lead length

Safety

No PCB's
UL Listed (Type 1 Outdoor, Dry or Damp locations)
Type HL
RoHS Compliance



SPECIFICATIONS

Retroflex LED Lamp	Lamp Power	No. of Lamps	Input Voltage	Input Power	Nominal Line Current (A)	Power Factor	MAX THD (%)
50W 2 Channel							
L48T8/8XX/12G-EB	12W	2	120-277V	30W	0.26/0.11	0.98	10
L48T8/8XX/15G-EB	16W	2	120-277V	36W	0.31/0.13	0.98	10
L36T8/8XX/10G-EB	10W	2	120-277V	25W	0.22/0.10	0.98	10
L24T8/8XX/8G-EB	8W	2	120-277V	21W	0.18/0.08	0.98	10
LB48T8U6/8XX/17W-EB	17W	2	120-277V	38W	0.32/0.14	0.98	10
L48T8/8XX/15G-EB-AC	16W	2	120-277V	36W	0.32/0.13	0.98	10

LED Drivers

Constant Current

Case 49
Qty: 40PCS



Case 27
Qty: 30PCS

LDH50 Series

0-10V Dimming, 50W Max

- Constant Current Design
- High Efficiency
- 0-10V Dimming
- High Input Voltage
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	>0.9
Start Time:	1000mS / 347V at full load

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	10-100%
Max. Case Temp:	85°C
MTBF:	300,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-30 ~ +55°C
Storage Temp.:	-40 ~ +80°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 60V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 EN55015, FCC Part 15 Class A

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
50W - Constant Current										
CC	0-10V Dimming	50W	347V	49	VEL50XXX347HDA-10V-49	1600Max	50	55	85	Y
CC	0-10V Dimming	50W	120-347V	27	VEL50XXXJVHDA-10V-27	1600Max	50	55	85	Y

LED Drivers

Constant Current



Case 47
Qty: 30PCS

LMV50 Series

Non-Dimmable, 50W Max

- Constant Current Design
- High Efficiency
- Universal Input Voltage
- Fully Isolated
- 5-year Warranty
- 100% Full Load Burn-in Test
- Active Power Factor Correction
- Non-Dimmable
- Multiple Output Current Configurations
- Multiple Case Options

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	> 0.9
Start Time:	1000mS / 120V at full load

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	85°C
MTBF:	200,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-30 ~ +55°C
Storage Temp.:	-40 ~ +80°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 60V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Non-Class 2 EN55015, FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
50W - Constant Current										
CC	Non-Dimming	50W	120-277V	47	VEL50XXXMVH-47	600-1200	50	28-55	87	85/65

LED Drivers

Constant Current



Waterproof Case 54
Qty: 20PCS

WLD50 Series

Waterproof, Non-Dimming, 50W Max

- Constant Current Design
- 0-10V Dimming
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP67 rated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47-63 Hz
THD (max.):	20%
Power Factor (min.):	0.99
Start Time:	1.0-2.0 sec

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	10-100%
Max. Case Temp:	85°C
MTBF:	470,000 hours
Life Rating:	85,000 hours

Environmental

Operating Temp.:	-35 ~ +70°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 100% RH
Storage Humidity:	5 ~ 100% RH
IP Rating:	IP67, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 130V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Non-Class 2 EN55015, FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I 10/230V)	Type TL (°C)
50W - Constant Current										
CC	Non-Dimming	50W	120-277V	54	VEL50035MVHB-54	350	50	71-142	90/91	
					VEL50045MVHB-54	450	50	55-111	90/91	
					VEL50070MVHB-54	700	50	36-72	89/90	
					VEL50085MVHB-54	850	50	29-58	89/90	
					VEL50105MVH-54	1050	50	24-48	89/90	
					VEL50140MVH-54	1400	50	18-36	88/89	
					VEL50175MVH-54	1750	50	14-29	88/89	
					VEL50210MVH-54	2100	50	12-24	87/88	
					VEL50245MVH-54	2450	50	10-20	87/88	
					VEL50280MVH-54	2800	50	9-18	86/87	
					VEL50315MVH-54	3150	50	8-16	84/85	

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	>0.95
Start Time:	1000 ms / 120VAC at full load

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	1-100%
Max. Case Temp:	85°C
MTBF:	450,000 hours
Life Rating:	80,000 hours

Environmental

Operating Temp.:	-20 ~ +55°C
Storage Temp.:	-25 ~ +55°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 40V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B



Case 35
Qty: 25PCS

LD50 Series

0-10V Dimming, 50W Max

- Constant Current Design
- High Efficiency
- 0-10V Dimming
- Universal Input Voltage
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
50W - Constant Current										
CC	0-10V Dimming	50W	120-277V	35	VEL50XXXMVHDA-10V-35	3330Max	50	15-36	87.0	86/64

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47-63 Hz
THD (max.):	20%
Power Factor (min.):	0.99
Start Time:	1.0-2.0 sec

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	10-100%
Max. Case Temp:	85°C
MTBF:	470,000 hours
Life Rating:	85,000 hours

Environmental

Operating Temp.:	-35 ~ +70°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 100% RH
Storage Humidity:	5 ~ 100% RH
IP Rating:	IP67, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 130V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Non-Class 2 EN55015, FCC Part 15 Class B



Waterproof Case 54
Qty: 20PCS

WLD50 Series

Waterproof, 0-10V Dimming, 50W Max

- Constant Current Design
- 0-10V Dimming
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP67 rated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I10/230V)	Type TL (°C)
50W - Constant Current										
CC	0-10V Dimming	50W	120-277V	54	VEL50035MVHDB-10V-54	350	50	71-142	90/91	
					VEL50045MVHDB-10V-54	450	50	55-111	90/91	
					VEL50070MVHDB-10V-54	700	50	36-72	89/90	
					VEL50085MVHDB-10V-54	850	50	29-58	89/90	
					VEL50105MVHDA-10V-54	1050	50	24-48	89/90	
					VEL50140MVHDA-10V-54	1400	50	18-36	88/89	
					VEL50175MVHDA-10V-54	1750	50	14-29	88/89	
					VEL50210MVHDA-10V-54	2100	50	12-24	87/88	
					VEL50245MVHDA-10V-54	2450	50	10-20	87/88	
					VEL50280MVHDA-10V-54	2800	50	9-18	86/87	
					VEL50315MVHDA-10V-54	3150	50	8-16	84/85	

Retroflex LED Drivers

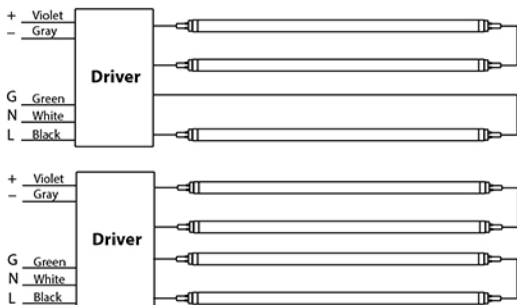
Constant Current



VEL60BN-4C-10V

0-10V Dimming, 60W 4 Channel

- Constant Current Design
- Universal Input Voltage
- 0-10V Dimming
- 5-year Warranty
- 100% Full Load Burn-in Test
- Active Power Factor Correction



VEL60BN-4C-10V

Family:	RetroFlex
Driver Type:	Constant Current
Lamp Operation:	Parallel
Input Voltage:	120-277
Input Frequency:	50/60 Hz
Dimming:	0-10V Dimming
RoHS:	Yes

Performance

Meets ANSI Standard C82.11
Meets ANSI Standard C62.41
Meets FCC Part 18 (Class A) for EMI and RFI
Active Power Factor Correction

Application

Minimum starting temperature:	- 0°F, - 18°C
Maximum case temperature:	105°F, 40°C
Sound Rated:	A
Remote Mounting:	18 ft. max. lead length

Safety

No PCB's
UL Listed (Type 1 Outdoor, Dry or Damp locations)
RoHS Compliance

SPECIFICATIONS



Retroflex LED Lamp	Lamp Power	No. of Lamps	Input Voltage	Input Power	Nominal Line Current (A)	Power Factor	MAX THD (%)
60W 4 Channel							
L24T8/8XX/8G-EB	8W	4	120-277V	46W	0.404	>0.90	10
L24T8/8XX/8G-EB	8W	3	120-277V	36W	0.330	>0.90	10
L48T8/8XX/12G-EB	12W	4	120-277V	58W	0.508	>0.90	10
L48T8/8XX/15G-EB	15W	4	120-277V	72W	0.594	>0.90	10
L48T8/8XX/12G-EB-AC	12W	4	120-277V	60W	0.560	>0.90	10
L48T8/8XX/15G-EB-AC	15W	4	120-277V	66W	0.540	>0.90	10
L48T8/8XX/12G-EB	12W	3	120-277V	51W	0.435	>0.90	10
L48T8/8XX/15G-EB	15W	3	120-277V	60W	0.513	>0.90	10
L48T8/8XX/12G-EB-AC	12W	3	120-277V	51W	0.450	>0.90	10
L48T8/8XX/15G-EB-AC	15W	3	120-277V	57W	0.474	>0.90	10
L96T8/8XX/24G-EB	24W	2	120-277V	60W	0.534	>0.90	10

L24T8

1	2	Output Current
ON	OFF	210 mA



L48T8

1	2	Output Current
OFF	OFF	240 mA



L96T8

1	2	Output Current
OFF	ON	150 mA



LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	0.99
Start Time:	500ms

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	70°C
MTBF:	975,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-30 ~ +50°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 90% RH
Storage Humidity:	5 ~ 95% RH
IP Rating:	IP67, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 32V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B



Waterproof Case 55
Qty: 10PCS

WL60 Series

Waterproof, Non-Dimming, 60W Max

- Constant Current Design
- 0-10V Dimming
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP67 rated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% @ 110/230V)	Type TL (°C)
60W - Constant Current										
CC	Non-Dimming	60W	120-277V	55	VEL60035MVHB-55	350	60	85-170	88/91	Y
					VEL60045MVHB-55	450	60	67-134	88/91	Y
					VEL60053MVHB-55	530	60	56-113	88/91	Y
					VEL60070MVHB-55	700	60	43-86	87/90	Y
					VEL60085MVHB-55	850	60	36-71	87/90	Y
					VEL60105MVHB-55	1050	60	29-58	87/90	Y
					VEL60120MVH-55	1200	60	20-50	87/90	Y
					VEL60140MVH-55	1400	60	21-43	86/89	Y
					VEL60175MVH-55	1750	60	17-35	86/89	Y
					VEL60210MVH-55	2100	60	14-29	86/89	Y
					VEL60245MVH-55	2450	60	12-25	86/89	Y
					VEL60280MVH-55	2800	60	11-21	85/88	Y
					VEL60300MVH-55	3000	60	10-20	85/88	Y
					VEL60315MVH-55	3150	60	9-19	85/88	Y
					VEL60350MVH-55	3500	60	8-17	84/87	Y
					VEL60375MVH-55	3750	60	10-20	84/87	Y
					VEL60420MVH-55	4200	60	7-14	83/86	Y
					VEL60500MVH-55	5000	60	6-12	83/86	Y

LED Drivers

Constant Current

LD



Case 35
Qty: 25PCS

LD60 Series

0-10V Dimming, 60W Max

- Constant Current Design
- High Efficiency
- 0-10V Dimming
- Universal Input Voltage
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	>0.95
Start Time:	1000 ms / 120VAC at full load

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	1-100%
Max. Case Temp:	85°C
MTBF:	450,000 hours
Life Rating:	80,000 hours

Environmental

Operating Temp.:	-20 ~ +55°C
Storage Temp.:	-25 ~ +55°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 40V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
60W - Constant Current										
CC	0-10V Dimming	60W	120-277V	35	VEL60XXXMVHDA-10V-35	3000Max	60	20-36	87.0	86/64
CC	0-10V Dimming	60W	120-277V	35	VEL60170MVHDA-10V-35	1700	60	28-35	87.0	86/64

LED Drivers

Constant Current



Waterproof Case 55
Qty: 10PCS

WLD60 Series

Waterproof, 0-10V Dimming, 60W Max

- Constant Current Design
- 0-10V Dimming
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP67 rated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47-63 Hz
THD (max.):	20%
Power Factor (min.):	0.99
Start Time:	1.0-2.0 sec

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	10-100%
Max. Case Temp:	85°C
MTBF:	470,000 hours
Life Rating:	85,000 hours

Environmental

Operating Temp.:	-35 ~ +70°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 100% RH
Storage Humidity:	5 ~ 100% RH
IP Rating:	IP67, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 130V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Non-Class 2 EN55015, FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I 10/230V)	Type TL (°C)
60W - Constant Current										
CC	0-10V Dimming	60W	120-277V	55	VEL60035MVHDB-10V-55	350	60	85-170	88/91	Y
					VEL60045MVHDB-10V-55	450	60	67-134	88/91	Y
					VEL60053MVHDB-10V-55	530	60	56-113	88/91	Y
					VEL60070MVHDB-10V-55	700	60	43-86	87/90	Y
					VEL60085MVHDB-10V-55	850	60	36-71	87/90	Y
					VEL60105MVHDB-10V-55	1050	60	29-58	87/90	Y
					VEL60120MVHDA-10V-55	1200	60	20-50	87/90	Y
					VEL60140MVHDA-10V-55	1400	60	21-43	86/89	Y
					VEL60175MVHDA-10V-55	1750	60	17-35	86/89	Y
					VEL60210MVHDA-10V-55	2100	60	14-29	86/89	Y
					VEL60245MVHDA-10V-55	2450	60	12-25	86/89	Y
					VEL60280MVHDA-10V-55	2800	60	11-21	85/88	Y
					VEL60300MVHDA-10V-55	3000	60	10-20	85/88	Y
					VEL60315MVHDA-10V-55	3150	60	9-19	85/88	Y
					VEL60350MVHDA-10V-55	3500	60	8-17	84/87	Y
					VEL60375MVHDA-10V-55	3750	60	10-20	84/87	Y
					VEL60420MVHDA-10V-55	4200	60	7-14	83/86	Y
					VEL60500MVHDA-10V-55	5000	60	6-12	83/86	Y

LED Drivers

Constant Current



Waterproof Case 55
Qty: 10PCS

WL75 Series

Waterproof, Non-Dimming, 75W Max

- Constant Current Design
- 0-10V Dimming
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP67 rated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	0.99
Start Time:	500ms

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	70°C
MTBF:	975,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-30 ~ +50°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 90% RH
Storage Humidity:	5 ~ 95% RH
IP Rating:	IP67, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 32V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I10/230V)	Type TL (°C)
75W - Constant Current										
CC	Non-Dimming	75W	120-277V	55	VEL75035MVHB-55	350	75	107-214	88/91	Y
					VEL75045MVHB-55	450	75	83-166	88/91	Y
					VEL75053MVHB-55	530	75	71-142	88/91	Y
					VEL75070MVHB-55	700	75	54-108	87/90	Y
					VEL75085MVHB-55	850	75	44-88	87/90	Y
					VEL75105MVHB-55	1050	75	36-72	87/90	Y
					VEL75120MVHB-55	1200	75	32-63	87/90	Y
					VEL75140MVH-55	1400	75	27-54	86/89	Y
					VEL75175MVH-55	1750	75	21-43	86/89	Y
					VEL75210MVH-55	2100	75	18-36	86/89	Y
					VEL75245MVH-55	2450	75	15-31	86/89	Y
					VEL75280MVH-55	2800	75	13-27	85/88	Y
					VEL75300MVH-55	3000	75	13-25	85/88	Y
					VEL75315MVH-55	3150	75	12-24	85/88	Y
					VEL75350MVH-55	3500	75	11-21	84/87	Y
					VEL75375MVH-55	3750	75	10-20	84/87	Y
					VEL75420MVH-55	4200	75	9-18	83/86	Y
					VEL75500MVH-55	5000	75	7-15	83/86	Y

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	>0.95
Start Time:	1000 ms / 120VAC at full load

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	1-100%
Max. Case Temp:	85°C
MTBF:	450,000 hours
Life Rating:	80,000 hours

Environmental

Operating Temp.:	-20 ~ +55°C
Storage Temp.:	-25 ~ +55°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 40V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B



Case 35
Qty: 25PCS

LD

LD75 Series

0-10V Dimming, 75W Max

- Constant Current Design
- High Efficiency
- 0-10V Dimming
- Universal Input Voltage
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
75W - Constant Current										
CC	0-10V Dimming	75W	120-277V	35	VEL75XXXMVHDA-10V-35	3120Max	75	24-36	87.0	86/64
CC	0-10V Dimming	75W	120-277V	35	VEL75200MVHDA-10V-35	2000	75	28-36	87.0	86/64

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47-63 Hz
THD (max.):	20%
Power Factor (min.):	0.99
Start Time:	1.0-2.0 sec

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	10-100%
Max. Case Temp:	85°C
MTBF:	470,000 hours
Life Rating:	85,000 hours

Environmental

Operating Temp.:	-35 ~ +70°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 100% RH
Storage Humidity:	5 ~ 100% RH
IP Rating:	IP67, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 130V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Non-Class 2 EN55015, FCC Part 15 Class B



Waterproof Case 55
Qty: 10PCS

WLD75 Series

Waterproof, 0-10V Dimming, 75W Max

- Constant Current Design
- 0-10V Dimming
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP67 rated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I10/230V)	Type TL (°C)
CC	0-10V Dimming	75W	120-277V	55	VEL75035MVHDB-10V-55	350	75	107-214	88/91	Y
					VEL75045MVHDB-10V-55	450	75	83-166	88/91	Y
					VEL75053MVHDB-10V-55	530	75	71-142	88/91	Y
					VEL75070MVHDB-10V-55	700	75	54-108	87/90	Y
					VEL75085MVHDB-10V-55	850	75	44-88	87/90	Y
					VEL75105MVHDB-10V-55	1050	75	36-72	87/90	Y
					VEL75120MVHDB-10V-55	1200	75	32-63	87/90	Y
					VEL75140MVHDA-10V-55	1400	75	27-54	86/89	Y
					VEL75175MVHDA-10V-55	1750	75	21-43	86/89	Y
					VEL75210MVHDA-10V-55	2100	75	18-36	86/89	Y
					VEL75245MVHDA-10V-55	2450	75	15-31	86/89	Y
					VEL75280MVHDA-10V-55	2800	75	13-27	85/88	Y
					VEL75300MVHDA-10V-55	3000	75	13-25	85/88	Y
					VEL75315MVHDA-10V-55	3150	75	12-24	85/88	Y
					VEL75350MVHDA-10V-55	3500	75	11-21	84/87	Y
					VEL75375MVHDA-10V-55	3750	75	10-20	84/87	Y
					VEL75420MVHDA-10V-55	4200	75	9-18	83/86	Y
					VEL75500MVHDA-10V-55	5000	75	7-15	83/86	Y

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	0.99
Start Time:	500ms

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	70°C
MTBF:	975,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-30 ~ +50°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 90% RH
Storage Humidity:	5 ~ 95% RH
IP Rating:	IP67, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 32V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B



Waterproof Case 57
Qty: 10PCS

WL96 Series

Waterproof, Non-Dimming, 96W Max

- Constant Current Design
- 0-10V Dimming
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP67 rated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I10/230V)	Type TL (°C)
96W - Constant Current										
CC	Non-Dimming	96W	120-277V	57	VEL96175MVH-57	1750	96	27-55	89/86	
					VEL96210MVH-57	2100	96	22-46	88/85	
					VEL96245MVH-57	2450	96	19-39	88/85	
					VEL96280MVH-57	2800	96	17-34	88/85	
					VEL96315MVH-57	3150	96	15-30.5	87/84	
					VEL96357MVH-57	3570	96	13-27	87/84	
					VEL96420MVH-57	4200	96	12-23	87/84	

LED Drivers

Constant Current



Waterproof Case 57
Qty: 10PCS

WLD96 Series

Waterproof, 0-10V Dimming, 96W Max

- Constant Current Design
- 0-10V Dimming
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP67 rated
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47-63 Hz
THD (max.):	20%
Power Factor (min.):	0.99
Start Time:	1.0-2.0 sec

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	10-100%
Max. Case Temp:	85°C
MTBF:	470,000 hours
Life Rating:	85,000 hours

Environmental

Operating Temp.:	-35 ~ +70°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 100% RH
Storage Humidity:	5 ~ 100% RH
IP Rating:	IP67, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 42V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 EN55015, FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I 10/230V)	Type TL (°C)
96W - Constant Current										
CC	0-10V Dimming	96W	120-277V	57	VEL96175MVHDA-10V-57	1750	96	27-55	89/86	
					VEL96210MVHDA-10V-57	2100	96	22-46	88/85	
					VEL96245MVHDA-10V-57	2450	96	19-39	88/85	
					VEL96280MVHDA-10V-57	2800	96	17-34	88/85	
					VEL96315MVHDA-10V-57	3150	96	15-30.5	87/84	
					VEL96357MVHDA-10V-57	3570	96	13-27	87/84	
					VEL96420MVHDA-10V-57	4200	96	12-23	87/84	

Retroflex LED Drivers

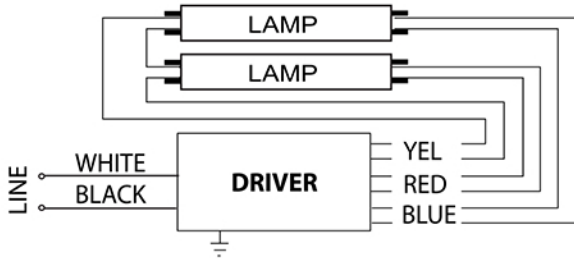
Constant Current



VEL100BHO-2C

Non-Dimming, 100W 4 Channel

- Constant Current Design
- Universal Input Voltage
- Non-Dimmable
- 5-year Warranty
- 100% Full Load Burn-in Test
- Active Power Factor Correction



VEL100BHO-2C

Family:	RetroFlex
Driver Type:	Constant Current
Lamp Operation:	Parallel
Input Voltage:	120-277
Input Frequency:	50/60 Hz
Dimming:	No
RoHS:	Yes

Performance

Meets ANSI Standard C82.11
Meets ANSI Standard C62.41
Meets FCC Part 18 (Class A) for EMI and RFI
Active Power Factor Correction

Application

Minimum starting temperature:	- 0°F, - 18°C
Maximum case temperature:	105°F, 40°C
Sound Rated:	A
Remote Mounting:	18 ft. max. lead length

Safety

No PCB's
UL Listed (Type 1 Outdoor, Dry or Damp locations)
Type HL
RoHS Compliance



SPECIFICATIONS

Retroflex LED Lamp	Lamp Power	No. of Lamps	Input Voltage	Input Power	Nominal Line Current (A)	Power Factor	MAX THD (%)
100W 2 Channel							
L48T5/8XX/24G-EB	24W	2	120-277V	54W	0.47/0.20	0.98	10

Retroflex LED Drivers

Constant Current

VEL100BN-4C

Family:	RetroFlex
Driver Type:	Constant Current
Lamp Operation:	Parallel
Input Voltage:	120-277
Input Frequency:	50/60 Hz
Dimming:	No
RoHS:	Yes

Performance

Meets ANSI Standard C82.11
Meets ANSI Standard C62.41
Meets FCC Part 18 (Class A) for EMI and RFI
Active Power Factor Correction

Application

Minimum starting temperature:	- 0°F, - 18°C
Maximum case temperature:	105°F, 40°C
Sound Rated:	A
Remote Mounting:	18 ft. max. lead length

Safety

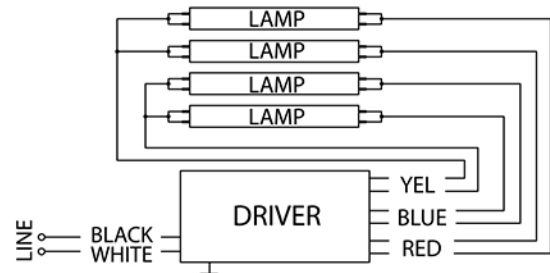
No PCB's
UL Listed (Type 1 Outdoor, Dry or Damp locations)
Type HL
RoHS Compliance



VEL100BN-4C

Non-Dimming, 100W 4 Channel

- Constant Current Design
- Universal Input Voltage
- Non-Dimmable
- 5-year Warranty
- 100% Full Load Burn-in Test
- Active Power Factor Correction



SPECIFICATIONS

Model Number	Lamp Power	No. of Lamps	Input Voltage	Input Power	Nominal Line Current (A)	Power Factor	MAX THD (%)
100W 4 Channel							
L48T8/8XX/12G-EB	12W	4	120-277V	55W	0.47/0.20	0.98	10
L48T8/8XX/15G-EB	16W	4	120-277V	71W	0.60/0.26	0.98	10
L36T8/8XX/10G-EB	10W	4	120-277V	47W	0.41/0.18	0.98	10
L24T8/8XX/8G-EB	8W	4	120-277V	39W	0.34/0.15	0.98	10
LB48T8U6/8XX/17W-EB	17W	4	120-277V	75W	0.64/0.28	0.98	10
L48T8/8XX/15G-EB-AC	16W	4	120-277V	71W	0.60/0.26	0.98	10

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	>0.9
Start Time:	1000mS / 347V at full load

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	10-100%
Max. Case Temp:	76°C
MTBF:	300,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-30 ~ +50°C
Storage Temp.:	-40 ~ +80°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 60V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class A



Case 50
Qty: 12PCS

LDH

LDH100 Series

0-10V Dimming, 100W Max

- Constant Current Design
- High Efficiency
- 0-10V Dimming
- High Input Voltage
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
100W - Constant Current										
CC	0-10V Dimming	100W	347V	50	VEL100XXX347HDA-10V-50	4200Max	100	55	87	Y
CC	0-10V Dimming	100W	120-347V	50	VEL100XXXJVHDA-10V-50	4200Max	100	55	87	Y
CC	0-10V Dimming	100W	347-480V	50	VEL100XXXHVHDA-10V-50	4200Max	100	55	87	Y

LED Drivers

Constant Current



Waterproof Case 58
Qty: 10PCS

WL100 Series

Waterproof, Non-Dimming, 100W Max

- Constant Current Design
- 0-10V Dimming
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP67 rated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	0.99
Start Time:	500ms

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	70°C
MTBF:	975,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-30 ~ +50°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 90% RH
Storage Humidity:	5 ~ 95% RH
IP Rating:	IP67, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 32V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I10/230V)	Type TL (°C)
100W - Constant Current										
CC	Non-Dimming	100W	120-277V	58	VEL100035MVHB-58	350	100	143-286	90/92	Y
					VEL100045MVHB-58	450	100	111-222	90/92	Y
					VEL100053MVHB-58	530	100	94-189	90/92	Y
					VEL100070MVHB-58	700	100	71-143	88/90	Y
					VEL100085MVHB-58	850	100	59-118	89/91	Y
					VEL100105MVHB-58	1050	100	47-95	89/91	Y
					VEL100140MVHB-58	1400	100	35-71	89/91	Y
					VEL100175MVHB-58	1750	100	28-57	89/91	Y
					VEL100210MVHB-58	2100	100	24-48	89/91	Y
					VEL100245MVHB-58	2450	100	20-41	88/90	Y
					VEL100280MVHB-58	2800	100	18-36	88/90	Y
					VEL100315MVHB-58	3150	100	16-32	88/90	Y
					VEL100357MVHB-58	3570	100	14-28	88/90	Y
					VEL100420MVHB-58	4200	100	12-24	88/90	Y

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47-63 Hz
THD (max.):	20%
Power Factor (min.):	0.98
Start Time:	1.0-2.0 sec

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	10-100%
Max. Case Temp:	85°C
MTBF:	470,000 hours
Life Rating:	85,000 hours

Environmental

Operating Temp.:	-35 ~ +70°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 100% RH
Storage Humidity:	5 ~ 100% RH
IP Rating:	IP67, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 130V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Non-Class 2 EN55015, FCC Part 15 Class B



Waterproof Case 58
Qty: 10PCS

WLD100 Series

Waterproof, 0-10V Dimming, 100W Max

- Constant Current Design
- 0-10V Dimming
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP67 rated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

WLD

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I10/230V)	Type TL (°C)
100W - Constant Current										
CC	0-10V Dimming	100W	120-277V	58	VEL100035MVHDB-10V-58	350	100	143-286	90/92	Y
					VEL100045MVHDB-10V-58	450	100	111-222	90/92	Y
					VEL100053MVHDB-10V-58	530	100	94-189	90/92	Y
					VEL100070MVHDB-10V-58	700	100	71-143	88/90	Y
					VEL100085MVHDB-10V-58	850	100	59-118	89/91	Y
					VEL100105MVHDB-10V-58	1050	100	47-95	89/91	Y
					VEL100140MVHDB-10V-58	1400	100	35-71	89/91	Y
					VEL100175MVHDB-10V-58	1750	100	28-57	89/91	Y
					VEL100210MVHDB-10V-58	2100	100	24-48	89/91	Y
					VEL100245MVHDB-10V-58	2450	100	20-41	88/90	Y
					VEL100280MVHDB-10V-58	2800	100	18-36	88/90	Y
					VEL100315MVHDB-10V-58	3150	100	16-32	88/90	Y
					VEL100357MVHDB-10V-58	3570	100	14-28	88/90	Y
					VEL100420MVHDB-10V-58	4200	100	12-24	88/90	Y

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	0.98
Start Time:	500ms

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	70°C
MTBF:	975,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-30 ~ +50°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 90% RH
Storage Humidity:	5 ~ 95% RH
IP Rating:	IP67, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 32V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B



Waterproof Case 58
Qty: 10PCS

WLI20 Series

Waterproof, Non-Dimming, 120W Max

- Constant Current Design
- 0-10V Dimming
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP67 rated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I10/230V)	Type TL (°C)
I20W - Constant Current										
CC	Non-Dimming	120W	120-277V	58	VEL120035MVHB-58	350	120	171-343	90/92	Y
					VEL120045MVHB-58	450	120	133-267	90/92	Y
					VEL120053MVHB-58	530	120	113-226	90/92	Y
					VEL120070MVHB-58	700	120	85-170	89/91	Y
					VEL120085MVHB-58	850	120	70-141	89/91	Y
					VEL120105MVHB-58	1050	120	57-114	89/91	Y
					VEL120140MVHB-58	1400	120	43-86	89/91	Y
					VEL120175MVHB-58	1750	120	34-69	89/91	Y
					VEL120210MVHB-58	2100	120	28-57	89/91	Y
					VEL120245MVHB-58	2450	120	24-49	88/90	Y
					VEL120280MVHB-58	2800	120	21-43	88/90	Y
					VEL120315MVHB-58	3150	120	19-38	88/90	Y
					VEL120347MVHB-58	3470	120	17-34	88/90	Y
					VEL120420MVHB-58	4200	120	14-29	88/90	Y
					VEL120500MVHB-58	5000	120	12-24	87/89	Y

LED Drivers

Constant Current



Waterproof Case 58
Qty: 10PCS

WLD120 Series

Waterproof, 0-10V Dimming, 120W Max

- Constant Current Design
- 0-10V Dimming
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP67 rated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47-63 Hz
THD (max.):	20%
Power Factor (min.):	0.98
Start Time:	1.0-2.0 sec

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	10-100%
Max. Case Temp:	85°C
MTBF:	470,000 hours
Life Rating:	85,000 hours

Environmental

Operating Temp.:	-35 ~ +70°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 100% RH
Storage Humidity:	5 ~ 100% RH
IP Rating:	IP67, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 130V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Non-Class 2 EN55015, FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I10/230V)	Type TL (°C)
120W - Constant Current										
CC	0-10V Dimming	120W	120-277V	58	VEL120035MVHDB-10V-58	350	120	171-343	90/92	Y
					VEL120045MVHDB-10V-58	450	120	133-267	90/92	Y
					VEL120053MVHDB-10V-58	530	120	113-226	90/92	Y
					VEL120070MVHDB-10V-58	700	120	85-170	89/91	Y
					VEL120085MVHDB-10V-58	850	120	70-141	89/91	Y
					VEL120105MVHDB-10V-58	1050	120	57-114	89/91	Y
					VEL120140MVHDB-10V-58	1400	120	43-86	89/91	Y
					VEL120175MVHDB-10V-58	1750	120	34-69	89/91	Y
					VEL120210MVHDB-10V-58	2100	120	28-57	89/91	Y
					VEL120245MVHDB-10V-58	2450	120	24-49	88/90	Y
					VEL120280MVHDB-10V-58	2800	120	21-43	88/90	Y
					VEL120315MVHDB-10V-58	3150	120	19-38	88/90	Y
					VEL120347MVHDB-10V-58	3470	120	17-34	88/90	Y
					VEL120420MVHDB-10V-58	4200	120	14-29	88/90	Y
					VEL120500MVHDB-10V-58	5000	120	12-24	87/89	Y

LED Drivers

Constant Current



Waterproof Case 63
Qty: 10PCS

WLI50 Series

Waterproof, Non-Dimming, 150W Max

- Constant Current Design
- 0-10V Dimming
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP67 rated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	0.98
Start Time:	500ms

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	70°C
MTBF:	975,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-30 ~ +50°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 90% RH
Storage Humidity:	5 ~ 95% RH
IP Rating:	IP67, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 32V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I10/230V)	Type TL (°C)
I50W - Constant Current										
CC	Non-Dimming	150W	120-277V	62	VEL150035MVHB-62	350	150	214-428	90/93	
					VEL150045MVHB-62	450	150	167-333	90/93	
					VEL150053MVHB-62	530	150	142-283	90/93	
					VEL150070MVHB-62	700	150	107-214	90/93	
					VEL150085MVHB-62	850	150	88-176	90/93	
					VEL150105MVHB-62	1050	150	71-142	89/92	
					VEL150120MVHB-62	1200	150	63-125	89/92	
					VEL150140MVHB-62	1400	150	54-107	89/92	
					VEL150150MVHB-62	1500	150	50-100	89/92	
					VEL150175MVHB-62	1750	150	43-85	89/92	
					VEL150185MVHB-62	1850	150	41-81	89/92	
					VEL150210MVHB-62	2100	150	36-71	89/92	
					VEL150245MVHB-62	2450	150	31-61	89/92	
					VEL150280MVHB-62	2800	150	27-53	89/92	
					VEL150300MVHB-62	3000	150	25-50	88/91	
					VEL150315MVHB-62	3150	150	24-48	88/91	
					VEL150350MVHB-62	3500	150	21-42	88/91	
					VEL150420MVHB-62	4200	150	18-36	88/91	
					VEL150500MVHB-62	5000	150	15-30	88/91	

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47-63 Hz
THD (max.):	20%
Power Factor (min.):	0.98
Start Time:	1.0-2.0 sec

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	10-100%
Max. Case Temp:	85°C
MTBF:	470,000 hours
Life Rating:	85,000 hours

Environmental

Operating Temp.:	-35 ~ +70°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 100% RH
Storage Humidity:	5 ~ 100% RH
IP Rating:	IP67, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 130V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Non-Class 2 EN55015, FCC Part 15 Class B



Waterproof Case 62
Qty: 10PCS

WLDI50 Series

Waterproof, 0-10V Dimming, 150W Max

- Constant Current Design
- 0-10V Dimming
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP67 rated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I10/230V)	Type TL (°C)
I50W - Constant Current										
CC	0-10V Dimming	150W	120-277V	62	VEL150035MVHDB-10V-62	350	150	214-428	90/93	
					VEL150045MVHDB-10V-62	450	150	167-333	90/93	
					VEL150053MVHDB-10V-62	530	150	142-283	90/93	
					VEL150070MVHDB-10V-62	700	150	107-214	90/93	
					VEL150085MVHDB-10V-62	850	150	88-176	90/93	
					VEL150105MVHDB-10V-62	1050	150	71-142	89/92	
					VEL150120MVHDB-10V-62	1200	150	63-125	89/92	
					VEL150140MVHDB-10V-62	1400	150	54-107	89/92	
					VEL150150MVHDB-10V-62	1500	150	50-100	89/92	
					VEL150175MVHDB-10V-62	1750	150	43-85	89/92	
					VEL150185MVHDB-10V-62	1850	150	41-81	89/92	
					VEL150210MVHDB-10V-62	2100	150	36-71	89/92	
					VEL150245MVHDB-10V-62	2450	150	31-61	89/92	
					VEL150280MVHDB-10V-62	2800	150	27-53	89/92	
					VEL150300MVHDB-10V-62	3000	150	25-50	88/91	
					VEL150315MVHDB-10V-62	3150	150	24-48	88/91	
					VEL150350MVHDB-10V-62	3500	150	21-42	88/91	
					VEL150420MVHDB-10V-62	4200	150	18-36	88/91	
					VEL150500MVHDB-10V-62	5000	150	15-30	88/91	

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	0.99
Start Time:	500ms

General Specifications

Dimming Type:	-
Dimming Range:	-
Max. Case Temp:	70°C
MTBF:	975,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-30 ~ +50°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 90% RH
Storage Humidity:	5 ~ 95% RH
IP Rating:	IP67, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 32V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B



Waterproof Case 62
Qty: 10PCS

WL200 Series

Waterproof, Non-Dimming, 200W Max

- Constant Current Design
- 0-10V Dimming
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP67 rated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I10/230V)	Type TL (°C)
200W - Constant Current										
CC	Non-Dimming	200W	120-277V	63	VEL200035MVHB-63	350	200	286-571	90/93	
					VEL200045MVHB-63	450	200	222-444	90/93	
					VEL200053MVHB-63	530	200	189-377	90/93	
					VEL200070MVHB-63	700	200	143-285	90/93	
					VEL200085MVHB-63	850	200	118-235	90/93	
					VEL200105MVHB-63	1050	200	95-190	89/92	
					VEL200120MVHB-63	1200	200	83-166	89/92	
					VEL200140MVHB-63	1400	200	71-142	89/92	
					VEL200150MVHB-63	1500	200	67-133	89/92	
					VEL200175MVHB-63	1750	200	57-114	89/92	
					VEL200210MVHB-63	2100	200	48-95	89/92	
					VEL200245MVHB-63	2450	200	41-81	88/91	
					VEL200280MVHB-63	2800	200	36-71	88/91	
					VEL200300MVHB-63	3000	200	34-67	88/91	
					VEL200315MVHB-63	3150	200	32-63	88/91	
					VEL200420MVHB-63	4200	200	24-48	88/91	
					VEL200490MVHB-63	4900	200	20-40	88/91	
					VEL200560MVHB-63	5600	200	18-36	88/91	
					VEL200600MVHB-63	6000	200	17-33	88/91	

LED Drivers

Constant Current



Waterproof Case 63
Qty: 10PCS

WLD200 Series

Waterproof, 0-10V Dimming, 200W Max

- Constant Current Design
- 0-10V Dimming
- Waterproof case
- High Efficiency
- Universal Input Voltage
- IP67 rated
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47-63 Hz
THD (max.):	20%
Power Factor (min.):	0.99
Start Time:	1.0-2.0 sec

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	10-100%
Max. Case Temp:	85°C
MTBF:	470,000 hours
Life Rating:	85,000 hours

Environmental

Operating Temp.:	-35 ~ +70°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	10 ~ 100% RH
Storage Humidity:	5 ~ 100% RH
IP Rating:	IP67, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 42V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 EN55015, FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I 10/230V)	Type TL (°C)
200W - Constant Current										
CC	0-10V Dimming	200W	120-277V	63	VEL200035MVHDB-10V-63	350	200	286-571	90/93	
					VEL200045MVHDB-10V-63	450	200	222-444	90/93	
					VEL200053MVHDB-10V-63	530	200	189-377	90/93	
					VEL200070MVHDB-10V-63	700	200	143-285	90/93	
					VEL200085MVHDB-10V-63	850	200	118-235	90/93	
					VEL200105MVHDB-10V-63	1050	200	95-190	89/92	
					VEL200120MVHDB-10V-63	1200	200	83-166	89/92	
					VEL200140MVHDB-10V-63	1400	200	71-142	89/92	
					VEL200150MVHDB-10V-63	1500	200	67-133	89/92	
					VEL200175MVHDB-10V-63	1750	200	57-114	89/92	
					VEL200210MVHDB-10V-63	2100	200	48-95	89/92	
					VEL200245MVHDB-10V-63	2450	200	41-81	88/91	
					VEL200280MVHDB-10V-63	2800	200	36-71	88/91	
					VEL200300MVHDB-10V-63	3000	200	34-67	88/91	
					VEL200315MVHDB-10V-63	3150	200	32-63	88/91	
					VEL200420MVHDB-10V-63	4200	200	24-48	88/91	
					VEL200490MVHDB-10V-63	4900	200	20-40	88/91	
					VEL200560MVHDB-10V-63	5600	200	18-36	88/91	
					VEL200600MVHDB-10V-63	6000	200	17-33	88/91	

LED Drivers

Constant Current

LD



Case 27
Qty: 30PCS

LD50 Series

0-10V Dimming, 50W Max

- Constant Current Design
- High Efficiency
- 0-10V Dimming
- Universal Input Voltage
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	>0.95
Start Time:	1000 ms / 120VAC at full load

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	1-100%
Max. Case Temp:	85°C
MTBF:	450,000 hours
Life Rating:	80,000 hours

Environmental

Operating Temp.:	-20 ~ +55°C
Storage Temp.:	-25 ~ +55°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 40V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
50W - Constant Current										
CC	0-10V Dimming	50W	120-277V	27	VPL50-XXX-27	600-1200	50	28-55	85.0	85/65
CC	0-10V Dimming	50W	120-277V	27	VPL50-054-MVHDA-PD-1C-27	540	50	28-55	85.0	85/65
					VPL50-075-MVHDA-PD-1C-27	750	50	28-55	85.0	85/65
					VPL50-085-MVHDA-PD-1C-27	850	50	28-55	85.0	85/65
					VPL50-100-MVHDA-PD-1C-27	1000	50	28-55	85.0	85/65
					VPL50-115-MVHDA-PD-1C-27	1150	50	28-43	85.0	85/65
					VPL50-XXX-MVHDA-PD-2C-27	400-600	50	20-55	85.0	85/65

LED Drivers

Constant Current



Waterproof Case 55
Qty: 10PCS

WLPD60 Series

Waterproof, Programmable Time-Shared Dimming,
60W Max

- Constant Current Design
- Time-Shared Dimming
- 0-10V Dimming
- PWM Dimming
- Waterproof Case
- High Efficiency
- Universal Input Voltage
- IP67 Rated
- 5-year Warranty
- 100% Full Load Burn-in Test
- Active Power Factor Correction
- Multiple Output Current Configurations

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47-63 Hz
THD (max.):	20%
Power Factor (min.):	0.9
Start Time:	1.0-2.0 sec

General Specifications

Dimming Type:	Time-Shared Dimming
	0-10V Dimming PWM Dimming
Dimming Range:	10-100%
Max. Case Temp:	90°C
MTBF:	300,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-40 ~ +70°C
Storage Temp.:	-40 ~ +80°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP67, Wet

Safety

Protection:	Short Circuit: Auto Recovery
	Max. No Load Voltage: 184V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Non-Class 2 EN55015, FCC Part 15

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I10/230V)	Type TL (°C)
60W - Constant Current										
CC	Time-Shared Dimming 0-10V Dimming PWM Dimming	60W	120-277V	55	VPL60035MVHDB-10V-T-55	350	60	85-170	88/91	Y
					VPL60045MVHDB-10V-T-55	450	60	67-134	88/91	Y
					VPL60053MVHDB-10V-T-55	530	60	56-113	88/91	Y
					VPL60070MVHDB-10V-T-55	700	60	43-86	87/90	Y
					VPL60085MVHDB-10V-T-55	850	60	36-71	87/90	Y
					VPL60105MVHDB-10V-T-55	1050	60	29-58	87/90	Y
					VPL60120MVHDB-10V-T-55	1200	60	20-50	87/90	Y
					VPL60140MVHDB-10V-T-55	1400	60	21-43	86/89	Y
					VPL60175MVHDB-10V-T-55	1750	60	17-35	86/89	Y
					VPL60210MVHDB-10V-T-55	2100	60	14-29	86/89	Y
					VPL60245MVHDB-10V-T-55	2450	60	12-25	86/89	Y
					VPL60280MVHDB-10V-T-55	2800	60	11-21	85/88	Y
					VPL60300MVHDB-10V-T-55	3000	60	10-20	85/88	Y
					VPL60315MVHDB-10V-T-55	3150	60	9-19	85/88	Y
					VPL60350MVHDB-10V-T-55	3500	60	8-17	84/87	Y
					VPL60375MVHDB-10V-T-55	3750	60	10-20	84/87	Y
VPL60420MVHDB-10V-T-55	4200	60	7-14	83/86	Y					
VPL60500MVHDB-10V-T-55	5000	60	6-12	83/86	Y					

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47-63 Hz
THD (max.):	20%
Power Factor (min.):	0.9
Start Time:	1.0-2.0 sec

General Specifications

Dimming Type:	Time-Shared Dimming 0-10V Dimming PWM Dimming
Dimming Range:	10-100%
Max. Case Temp:	90°C
MTBF:	300,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-40 ~ +70°C
Storage Temp.:	-40 ~ +80°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP67, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 230V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Non-Class 2 EN55015, FCC Part 15



Waterproof Case 55
Qty: 10PCS

WLPD75 Series

Waterproof, Programmable Time-Shared Dimming,
75W Max

- Constant Current Design
- Time-Shared Dimming
- 0-10V Dimming
- PWM Dimming
- Waterproof Case
- High Efficiency
- Universal Input Voltage
- IP67 Rated
- 5-year Warranty
- 100% Full Load Burn-in Test
- Active Power Factor Correction
- Multiple Output Current Configurations

WLPD

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I10/230V)	Type TL (°C)
75W - Constant Current	CC Time-Shared Dimming 0-10V Dimming PWM Dimming	75W	120-277V	55	VPL75035MVHDB-10V-T-55	350	75	107-214	88/91	Y
					VPL75045MVHDB-10V-T-55	450	75	83-166	88/91	Y
					VPL75053MVHDB-10V-T-55	530	75	71-142	88/91	Y
	VPL75070MVHDB-10V-T-55				700	75	54-108	87/90	Y	
	VPL75085MVHDB-10V-T-55				850	75	44-88	87/90	Y	
	VPL75105MVHDB-10V-T-55				1050	75	36-72	87/90	Y	
	VPL75120MVHDB-10V-T-55				1200	75	32-63	87/90	Y	
	VPL75140MVHDB-10V-T-55				1400	75	27-54	86/89	Y	
	VPL75175MVHDB-10V-T-55				1750	75	21-43	86/89	Y	
	VPL75210MVHDB-10V-T-55				2100	75	18-36	86/89	Y	
	VPL75245MVHDB-10V-T-55				2450	75	15-31	86/89	Y	
	VPL75280MVHDB-10V-T-55				2800	75	13-27	85/88	Y	
	VPL75300MVHDB-10V-T-55				3000	75	13-25	85/88	Y	
	VPL75315MVHDB-10V-T-55				3150	75	12-24	85/88	Y	
	VPL75350MVHDB-10V-T-55				3500	75	11-21	84/87	Y	
	VPL75375MVHDB-10V-T-55				3750	75	10-20	84/87	Y	
	VPL75420MVHDB-10V-T-55				4200	75	9-18	83/86	Y	
VPL75500MVHDB-10V-T-55	5000	75	7-15	83/86	Y					

LED Drivers

Constant Current

LD



Case 35
Qty: 25PCS

LD100 Series

0-10V Dimming, 100W Max

- Constant Current Design
- High Efficiency
- 0-10V Dimming
- Universal Input Voltage
- Fully Isolated
- 5-year Warranty
- 100% full load burn-in test
- Active Power Factor Correction
- Multiple output current configurations

Electrical Characteristics

No. of Channels:	1
Input Frequency:	50/60 Hz
THD (max.):	20%
Power Factor (min.):	>0.95
Start Time:	1000 ms / 120VAC at full load

General Specifications

Dimming Type:	0-10V Dimming
Dimming Range:	1-100%
Max. Case Temp:	85°C
MTBF:	450,000 hours
Life Rating:	80,000 hours

Environmental

Operating Temp.:	-20 ~ +55°C
Storage Temp.:	-25 ~ +55°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP20, Damp

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 40V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Class 2 FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (%)	Type TL (°C)
100W - Constant Current										
CC	0-10V Dimming	100W	120-277V	35	VPL100-XXX-35	680-2720	100	35-45	87.0	81/70
CC	0-10V Dimming	100W	120-277V	35	VPL100-240-35	2300	100	35-43	87.0	81/70
					VPL100-XXX-MVHDA-PD-4C-35	400-700	100	20-52	87.0	81/70

LED Drivers

Constant Current



Waterproof Case 58
Qty: 10PCS

WLPD I20 Series

Waterproof, Programmable Time-Shared Dimming,
120W Max

- Constant Current Design
- Time-Shared Dimming
- 0-10V Dimming
- PWM Dimming
- Waterproof Case
- High Efficiency
- Universal Input Voltage
- IP67 Rated
- 5-year Warranty
- 100% Full Load Burn-in Test
- Active Power Factor Correction
- Multiple Output Current Configurations

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47-63 Hz
THD (max.):	20%
Power Factor (min.):	0.9
Start Time:	1.5-3.0 sec

General Specifications

Dimming Type:	Time-Shared Dimming 0-10V Dimming PWM Dimming
Dimming Range:	10-100%
Max. Case Temp:	90°C
MTBF:	300,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-40 ~ +70°C
Storage Temp.:	-40 ~ +85°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP67, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 360V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Non-Class 2 EN55015, FCC Part 15 Class B

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I10/230V)	Type TL (°C)
I20W - Constant Current	CC Time-Shared Dimming 0-10V Dimming PWM Dimming	120W	120-277V	58	VPL120035MVHDB-10V-T-58	350	120	171-343	90/92	Y
					VPL120045MVHDB-10V-T-58	450	120	133-267	90/92	Y
					VPL120053MVHDB-10V-T-58	530	120	113-226	90/92	Y
					VPL120070MVHDB-10V-T-58	700	120	85-170	89/91	Y
					VPL120085MVHDB-10V-T-58	850	120	70-141	89/91	Y
					VPL120105MVHDB-10V-T-58	1050	120	57-114	89/91	Y
					VPL120140MVHDB-10V-T-58	1400	120	43-86	89/91	Y
					VPL120175MVHDB-10V-T-58	1750	120	34-69	89/91	Y
					VPL120210MVHDB-10V-T-58	2100	120	28-57	89/91	Y
					VPL120245MVHDB-10V-T-58	2450	120	24-49	88/90	Y
					VPL120280MVHDB-10V-T-58	2800	120	21-43	88/90	Y
					VPL120315MVHDB-10V-T-58	3150	120	19-38	88/90	Y
					VPL120350MVHDB-10V-T-58	3500	120	17-34	88/90	Y
					VPL120420MVHDB-10V-T-58	4200	120	14-29	88/90	Y
					VPL120500MVHDB-10V-T-58	5000	120	12-24	87/89	Y

LED Drivers

Constant Current

Electrical Characteristics

No. of Channels:	1
Input Frequency:	47-63 Hz
THD (max.):	20%
Power Factor (min.):	0.9
Start Time:	1.0-2.0 sec

General Specifications

Dimming Type:	Time-Shared Dimming 0-10V Dimming PWM Dimming
Dimming Range:	10-100%
Max. Case Temp:	90°C
MTBF:	300,000 hours
Life Rating:	50,000 hours

Environmental

Operating Temp.:	-40 ~ +70°C
Storage Temp.:	-40 ~ +80°C
Operating Humidity:	20 ~ 95% RH
Storage Humidity:	10 ~ 95% RH
IP Rating:	IP67, Wet

Safety

Protection:	Short Circuit: Auto Recovery Max. No Load Voltage: 799V SCP, OTP, OVP
Safety and EMC:	UL/cUL, UL8750 Non-Class 2 EN55015, FCC Part 15 Class B



Waterproof Case 63
Qty: 10PCS

WLPD200 Series

Waterproof, Programmable Time-Shared Dimming,
200W Max

- Constant Current Design
- Time-Shared Dimming
- 0-10V Dimming
- PWM Dimming
- Waterproof Case
- High Efficiency
- Universal Input Voltage
- IP67 Rated
- 5-year Warranty
- 100% Full Load Burn-in Test
- Active Power Factor Correction
- Multiple Output Current Configurations

WLPD

SPECIFICATIONS

Type	Dimming	Rated Power	Input Voltage	Case Type	Model Number	Output Current (mA)	Max. Output Wattage (W)	Output Voltage Range (min.-max.)	Typ. Efficiency (% I10/230V)	Type TL (°C)
200W - Constant Current	CC Time-Shared Dimming 0-10V Dimming PWM Dimming	200W	120-277V	63	VPL200035MVHDB-10V-T-63	350	200	286-571	90/93	Y
					VPL200045MVHDB-10V-T-63	450	200	222-444	90/93	Y
					VPL200053MVHDB-10V-T-63	530	200	189-377	90/93	Y
					VPL200070MVHDB-10V-T-63	700	200	143-285	90/93	Y
					VPL200085MVHDB-10V-T-63	850	200	118-235	90/93	Y
					VPL200105MVHDB-10V-T-63	1050	200	95-190	89/92	Y
					VPL200120MVHDB-10V-T-63	1200	200	83-166	89/92	Y
					VPL200140MVHDB-10V-T-63	1400	200	71-142	89/92	Y
					VPL200150MVHDB-10V-T-63	1500	200	67-133	89/92	Y
					VPL200175MVHDB-10V-T-63	1750	200	57-114	89/92	Y
					VPL200210MVHDB-10V-T-63	2100	200	48-95	89/92	Y
					VPL200245MVHDB-10V-T-63	2450	200	41-81	88/91	Y
					VPL200280MVHDB-10V-T-63	2800	200	36-71	88/91	Y
					VPL200300MVHDB-10V-T-63	3000	200	34-67	88/91	Y
					VPL200315MVHDB-10V-T-63	3150	200	32-63	88/91	Y
					VPL200350MVHDB-10V-T-63	3500	200	29-57	88/91	Y
					VPL200420MVHDB-10V-T-63	4200	200	24-48	88/91	Y
					VPL200490MVHDB-10V-T-63	4900	200	20-40	88/91	Y
					VPL200560MVHDB-10V-T-63	5600	200	18-36	88/91	Y
					VPL200600MVHDB-10V-T-63	6000	200	17-33	88/91	Y