Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

VLED-25W Series

Dimmable LED Drivers
Constant Current & Constant Voltage
Plastic Housing

Electrical Specifications

Input Voltage Range:	**100-277 Vac Nom. (90-305 V Min/Max)**
Frequency:	**50/60 Hz Nom. (47-63 Hz Min/Max)**
Power Factor:	**>0.90 @ full load, 100V through 277V**
Inrush Current:	**60 Amps max @ 230 Vac, cold start 25ºC**
Input AC Current:	**0.4 A max @ 100Vac, 0.2 A max @ 220Vac**
Maximum Power:	**26W**
THD:	**≤ 20% @ full load**
Line Regulation:	**± 1% Constant Current, ± 2% Constant Voltage**
Load Regulation:	**± 3%**
Leakage Current:	**0.75 mA max @ 277Vac 60Hz**
Turn-on Delay:	**0.6S @ 110Vac, 0.3S @ 220Vac Typical**
Ripple and Noise:	**3-4% V_o**
Protection:	**Over-Voltage, Over-Current, Over-Load and Short Circuit Protection with self-recovery**

Environmental Specifications

Minimum Starting Temp:	**-40ºC**
Maximum Case Temp.	**90°C**
Storage Temperature:	**-40ºC to +85ºC**
Humidity:	**5% to 100%**
Cooling:	**Convection**
Sound Rating:	**Class A**
MTBF:	**200,000 Hr (cc) or 130,000 Hr (cv) @ 110Vac, 80% load and 25ºC (MIL-HDBK-217F)**
Lifetime:	**91,000 Hours @ 120Vac, 80% load and 60ºC ambient**
EMC:	**FCC 47CFR Part 15 Class B compliant**
Weight:	**200 g**

- Total Power: 25 Watts
- Input Voltage: 100-277 Vac Nom.
- UL Dry & Damp Location Rated
- IP66
- High Power Factor with Active Correction
- Output Protection & Lightning Protection
- UL8750 and EN61347

Ordering Options:

-D: 0-10V dimmable version comes with an extra three wires +Purple/-Gray/Yellow on the output side. 0-10V Dimming is compatible with most quality 0-10V wall dimmers and direct 0-10V analog signal. See page 2 for additional specifications.

Constant Current - Product Specifications

Model Number	Output Current *(mA ±5%)*	Output Voltage Range *(Vdc)*	Max. Output Power *(W)*	Typical Efficiency
VLED25W-075-C0350-XX	350	38-75	26	86%
VLED25W-056-C0450-XX	450	28-56	26	85%
VLED25W-037-C0700-XX	700	19-37	26	85%
VLED25W-025-C1050-XX	1050	13-25	26	84%
VLED25W-019-C1400-XX	1400	10-19	26	82%
VLED25W-015-C1750-XX	1750	8-15	26	81%

-XX indicates dimming options are available. See options at left. Blank = fixed current output

Constant Voltage - Product Specifications

Model Number	Output Voltage *(Vdc ±5%)*	Output Current Range *(mA)*	Max. Output Power *(W)*	Typical Efficiency
VLED25W-024	24	0-1080	26	84%
VLED25W-036	36	0-720	26	85%
VLED25W-048	48	0-540	26	86%

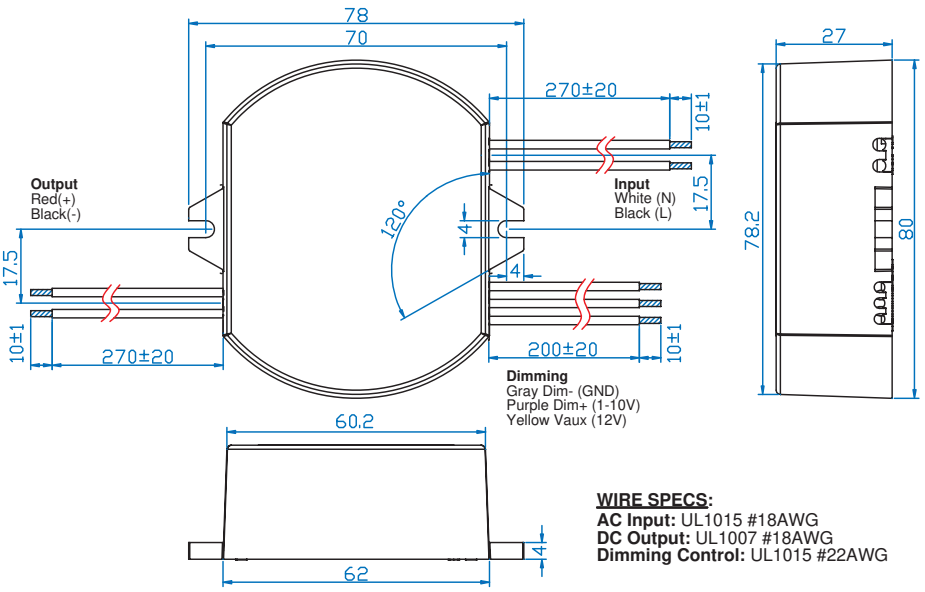
Class 2: US/Canada | US Only

E332160

Note:
LED drivers are designed and intended to operate LED loads only. Non-LED loading may be outside the specified design limits of our LED drivers, and therefore cannot be covered by any warranty. If you desire to use our LED drivers to operate non-LED loads please contact us to discuss compatibility.

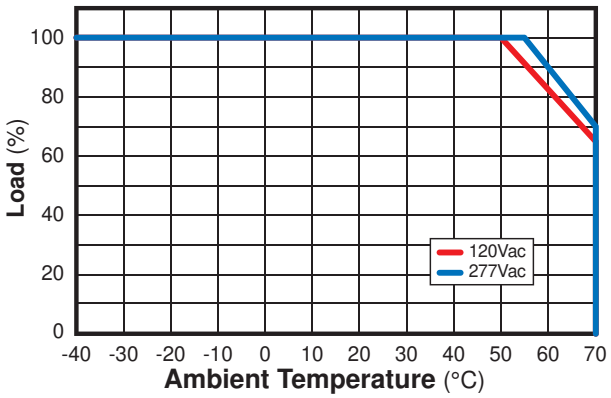
Specifications subject to change without notice.

Rev 6-6-16

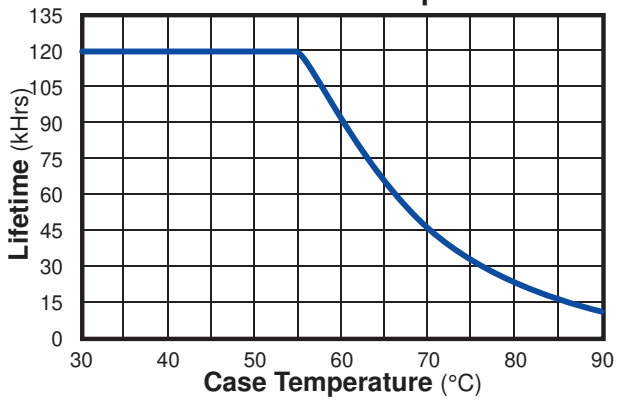


WIRE SPECS:
AC Input: UL1015 #18AWG
DC Output: UL1007 #18AWG
Dimming Control: UL1015 #22AWG

Derating Curve

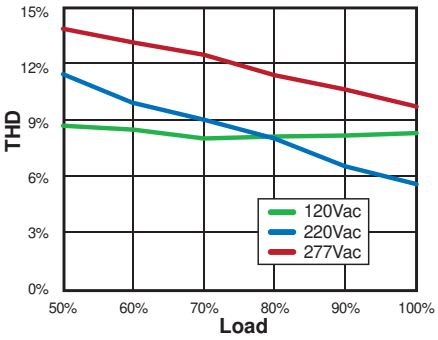


Lifetime / Case Temperature



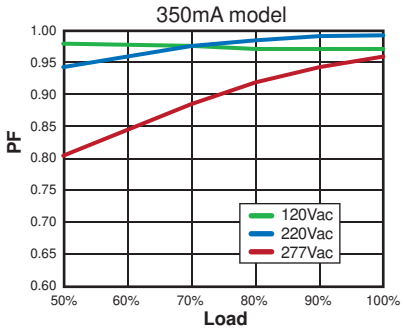
Total Harmonic Distortion

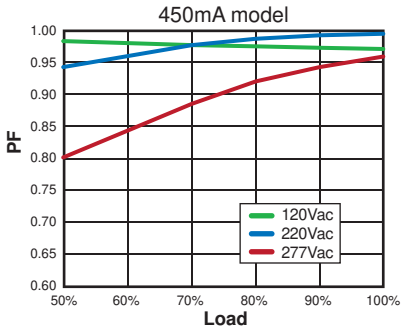
700mA model

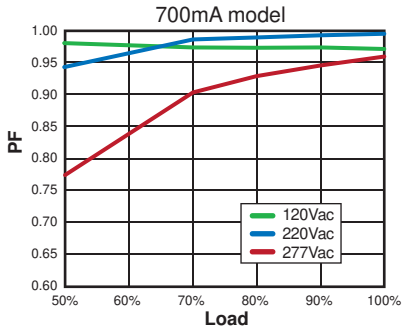


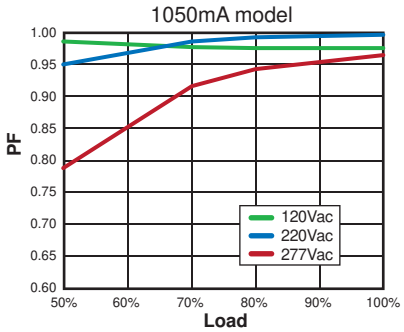
Safety Cert.	Standard
UL/CUL	UL8750, UL935, UL1012, UL1310 Class 2, CSA-C22.2 No. 107.1, CSA-C22.2 NO. 223-M91 Class 2
CE	EN61347-1, EN61347-2-13
FCC Part 15 Class B	ANSI C63.4: 2009
EMC Standard	**Notes**
EN55015	Conducted emission Test & Radiated emission Test
EN61000-3-2	Harmonic current emissions
EN61000-3-3	Voltage fluctuations & flicker
EN61000-4-2	Electrostatic Discharge (ESD): ±4kV contact discharge, ±8kV air discharge
EN61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test-RS
EN61000-4-4	Electrical Fast Transient / Burst-EFT: Level 3, Criteria A
EN61000-4-5	Surge Immunity Test: AC Power Line: line to line 2 kV, line to earth 4 kV
EN61000-4-6	Conducted Radio Frequency Disturbances Test-CS
EN61000-4-8	Power Frequency Magnetic Field Test
EN61000-4-11	Voltage Dips
EN61547	Electromagnetic Immunity Requirements Applies To Lighting Equipment
ANSI/IEEE C62.41-1991	Transient Protection, power supply shall comply with Class A operation. The line transient shall consist of seven strikes of a 100 kHz ring wave, 2.5 kV level, for both common mode and differential mode.

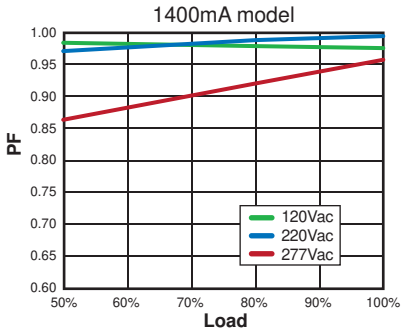
Power Factor Characteristics *(constant current models)*

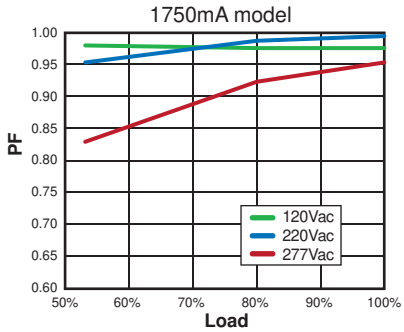




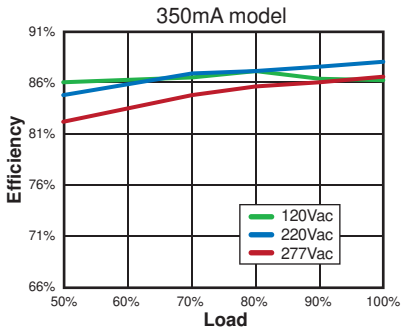


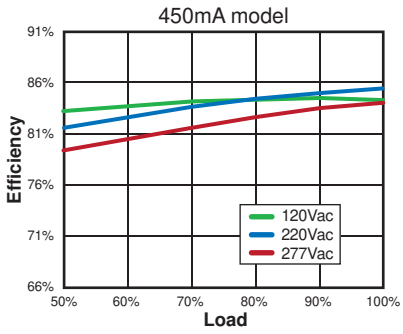


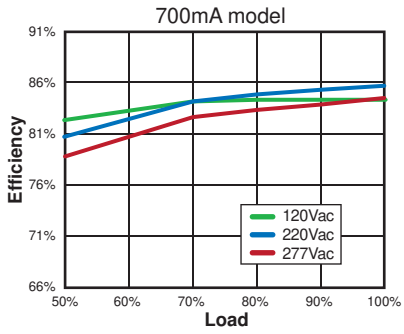


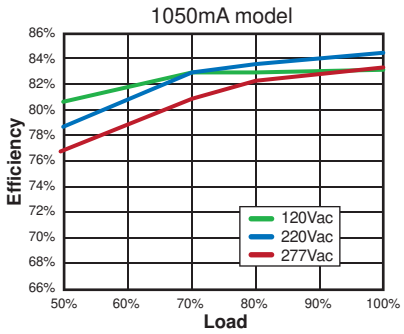


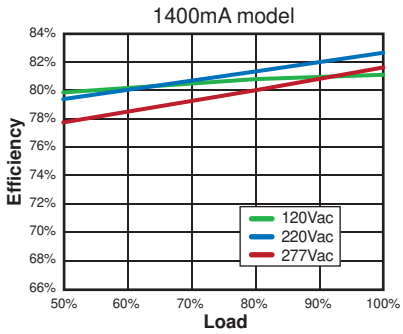
Efficiency / Load *(constant current models)*

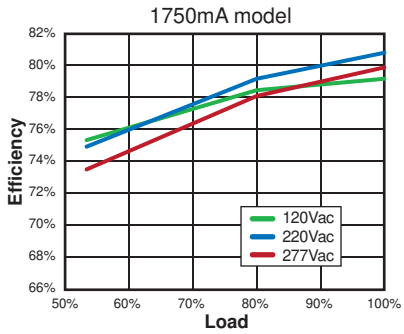










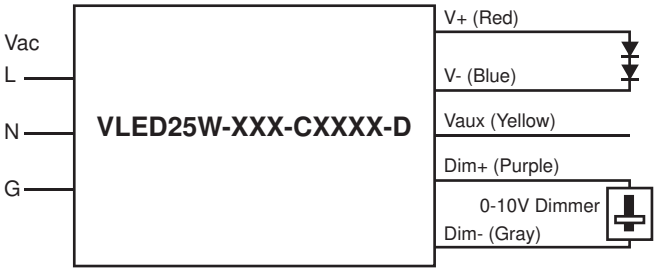


Dimming Control

The dimmer control is operated from an input signal of 1 – 10 Vdc. Recommended implementation provided below.

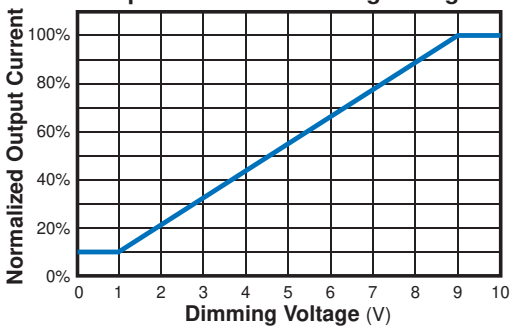
Parameters	Minimum	Typical	Maximum
12V output voltage	10.8V	12V	13.2V
12V output source current	0 mA	—	20mA
Absolute maximum voltage on the 1-10v input pin	0V	—	15V
Source current on 1-10V input pin	0µA	—	200µA

Typical Analog 0-10V Dimming Circuit

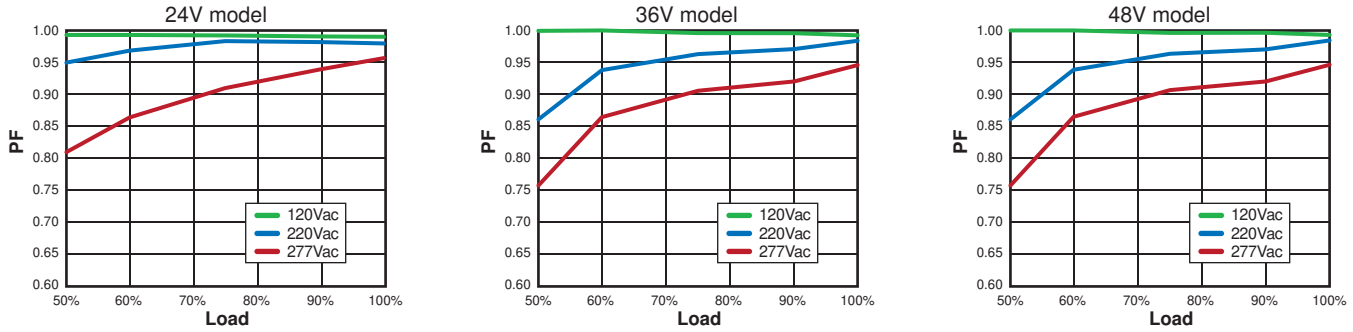


Note: Do not connect Dim- to V-

Output Current / Dimming Voltage



Power Factor Characteristics *(constant voltage models)*



Efficiency / Load *(constant voltage models)*