



XLD75-SI Dual Mode CC/CV LED Drivers



Model Selection Key XLD75-ABBV-SI

Standard Housing Nominal Output Voltage Number of Output Channel(s) Series Name

Basic Class 2 75 Watt LED Driver

Coming in a smart and slim form factor, the basic model is ideal for space restrained applications. Efficient, realiable and easy to install, the XLD 75-SI (75 Watt power rating) is fully potted and can work in extremely wide temperature environments (-40°C to 60°C).

This unit features unversal input 90-305 V_{AC} and its userfriendly output voltage/current adjust pots allow you to easily tune the unit to drive your system at the appropriate power levelsenabling flexibility and compatibility with a wide variety of indoor/outdoor LED lightng systems.

Features

- Universal AC Input
- Constant Current and Constant Voltage dual mode • operation for flexibility and optimal performance
- User-adjustable Output Voltage and Current •
- Up to 92% Efficiency •
- Active Power Factor Correction, PF>0.9
- Heavy duty design for harsh environments
- Built-in protection: SCP, OTP, OVP, OCP •
- UL Class I and II, cUL, CE, FCC Title 47 CFR 15 Class B
- IP 65
- **3 Years Warranty**

			CC mode			CVMode								
Model Number	Input Voltage Range (V _{AC})*	Channe I(s) Output	Rated Current (per Channe I) (A)	(LĒ Volt	liance ED) age ∞)	Curre Adjus Rang Chan (/	stable e (All n els)	Preset Vout (Vdc)	Load F (p Char (<i>f</i>	er in el)			Max Output Power (per Channel) (W)	Total Output Power (W)
				min	max	min	max		min	max	min	max		
XLD75-112V-SI	90-305	1	5.0	6.0	12.0	0.50	5.25	12	0	5.25	8.4	12.6	60	60
XLD75-115V-SI	90-305	1	5.0	7.5	15.0	0.50	5.25	15	0	5.25	10.5	15.8	75	75
XLD75-124V-SI	90-305	1	3.1	12.0	24.0	0.31	3.30	24	0	3.30	16.8	25.2	75	75
XLD75-136V-SI	90-305	1	2.1	18.0	36.0	0.21	2.18	36	0	2.18	25.2	37.8	75	75
XLD75-148V-SI	90-305	1	1.6	24.0	48.0	0.16	1.65	48	0	1.65	33.6	50.4	75	75

SI: Waterproof standard aluminum housing

* = PSE Approval: 100-120 VAC Only.
* UL marking: for products manufactured in Vietnam only, effective October 2020.



Input Specification				
Voltage Range	Frequency Range	Max Inrush Current	Power Factor	THD
90-305 V _{AC} (NOM: 120/240/277 V _{AC})	47-63 Hz	50A@230 V _{AC} input, 25°C, cold start-up	0.9 min @100-277 V _{AC} , Full load	<25% @ full load

Output Specification						
Max Power	75 W	Transient Response	8 mS, full load to Half load, 120 V_{AC} Input			
Line Regulation	+/- 1% Max	Short Circuit Protection	Hiccup-Mode, Auto-Recovery upon removal of short circuit condition.			
Efficiency	>80% @ Full Load, 230 VAC input	Constant Voltage (CV) Mode Load Regulation	+/- 5% Max (Voltage Setting Adjustable via on-board pot: +5%/-30%)			
Noise/Ripple	1.5% of Rated Output Voltage*	Constant-Current (CC) Mode Regulation	+/- 5% Max (Current Setting Adjustable via on-board pot: +5%/-90%)			
Over Current Protection	125% Max	Over Voltage Protection	132% Max			
Hold-up Time	2 mS @ full load, 120V _{AC} input	Start-up Time	2 sec. Typical@ start-up to full load, 120V _{AC} input			
		Over temperature Protection	105°C Max, Hiccup-Mode, Auto-Recovery			

* All noise measurements made at the output terminals, connected to a 20MHz low pass filter.

Environmental Specifications						
MTBF	Cooling	Operating Temp	Storage Temp	Relative Humidity		
55,000 hours (Full load @ 25°C Ambient, Based on MIL-217F)	Convection	-40°C to 60°C (Full load)	-40°C to 85°C	5% - 95 %		

Compliance / Safety						
EMI/RFI:	CISPR-22 Class B FCC part 15 Class B EN 55015					
Safety Standards:	UL 1012/1585, UL8750, UL Class 2 Damp Location UL 48, cUL, CE, UL #: E342485 EN 61347-2-13, PSE					
Weatherability:	EN60529 IP 65					

Mechanical

Material:

NEMA 3 Design with aluminum extruded enclosure, with IP65 Waterproof, fully potted PCB.

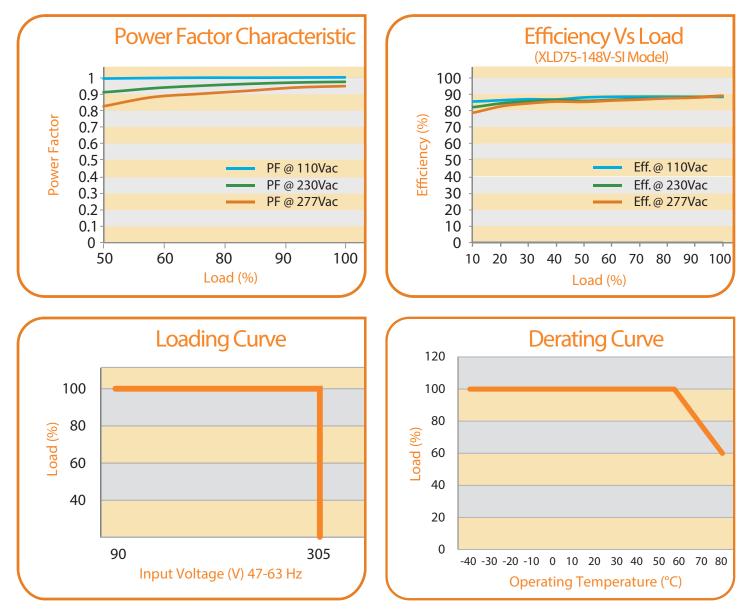
Remote Dimming Options

- Dimming Types
- 1. PWM-1kHz, 1-100%
- 2. Constant Current, 10-100% 3. Output Voltage, 75-100%
- Dimming Control
- 1-10V DC
- Potentiometer
- Serial Comm. (2-wire)
- 4. Compatible with SLD/XLD DIM Wireless Remote



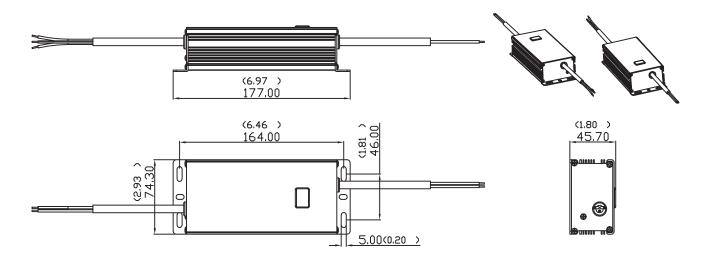


Performance Curves



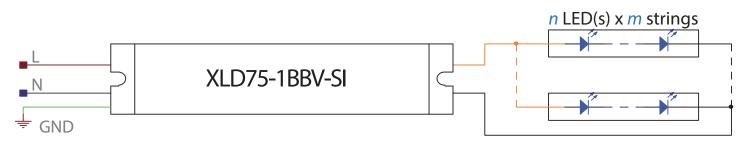


Mechanical Diagrams



Packing Information Carton size: L259xW218xH156(MM) Weight: 0.88kg/pcs; Total Weight: 6pcs/carton; G.W.6.30KG; N.W.5.28KG

Configuration Arrays



Model	CC mode LED Voltage Range (V)	Recommended n LED(s) per String *	Current POT Adjust Range (A)	LED Current per String
XLD75-112V-SI	6 - 12	2 - 4	0.5 - 5.25	
XLD75-115V-SI	7.5 - 15	2 - 5	0.5 - 5.25	
XLD75-124V-SI	12 - 24	4 - 9	0.31 - 3.29	l _{out}
XLD75-136V-SI	18 - 36	7 - 14	0.21 - 2.18	= m Strings
XLD75-148V-SI	24 - 48	9 - 18	0.16 - 1.64	
* LED Vf range: 2.7-3.6V				

Information furnished is believed to be accurate and reliable. However, GRE Alpha assumes no responsibility for the consequences of use of such information nor for any infringement of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of GRE Alpha. Specifications mentioned in this publication are subject to change without notice. This publication supersedes and replaces all information previously supplied.

The GRE Alpha logo is a registered trademark of GRE Alpha Electronics Ltd. All other names are the property of their respective owners