











# **Model Selection Key**



With Trim Pots Nominal Output Voltage Number of Output Channel(s) Series Name



## Plug-and-Play Class 2 75 Watt LED Driver

The GRE Alpha XLD series is the industry's only UL Listed LED driver. As a standalone unit, this unique patented, conduitready, LED power supply will enable complete installation of your system without having to install external junction boxes saving you invaluable time and money in installation and approvals. It's as simple as plug-and play!

Efficient, Reliable and easy to install, the XLD 75 (75 Watt power rating) is fully potted and can work in extremely wide temperature environments (-40°C-60°C). This unit features universal input 90-305 VAC and its user-friendly output voltage/current adjust pots allow you to easily tune the unit to drive your system at the appropriate power levels enabling flexibility and compatibility with a wide variety of indoor/ outdoor LED lighting systems.

#### **Features**

- The only UL Listed LED Driver on the market, enabling drastically reduced approval times and agency approval
- Plug-and-Play Conduit Entry and Wiring Compartments. Eliminates néed for external Junction boxes.
- Wide Input Voltage: 90-305 VAC
- User Adjustable Output Voltage/Current High Efficiency: Active PFC
- Extremely Low operating temperature 40°C -60°C
- SCP, OCP, OTP, OVP
- **Remote Dimming Options**
- 3 Years Warranty

# **Applications**

- Architectural Lighting
- Effect & Contour Lighting
- Office General Illumination
- Warehouses
- Street Lighting
- Signage
- Strip Lighting
- Swimming Pools/Fountain lighting
- Horticultural Lighting

				CC	mode			CV Mode						
Model Number	Input Voltage Range (Vac)*	Channel(s) Output	Rated C urrent (per Channel) (A)	(LĖ	oliance ED) tage cc)	Curre Adjus Rang Char (/	stable le (All inels)	Preset Vout (Vbc)	(p Cha	Range eer nnel) A)	Adju Rar	gePot stable nge ∞)	Max Output Power (per Channel) (W)	Total Output Power (W)
				min	max	min	max		min	max	min	max		
XLD75-112V-FC	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-FC	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-FC	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-FC	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-FC	90-305	1	1.6	24.0	48.0	0.16	1.65	48	0	1.65	33.6	50.4	75	75

FC = Patented, easy install enclosure with intergral wiring compartments.

<sup>\* =</sup> CCC Approval: 100-240 VAC Only; 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 VAC (NOM: 120/240/277 VAC)	47-63 Hz	50A@230 VAC input, 25°C, cold start-up	0.9 min @100-277 VAC, Full load	<25% @ full load

Output Specification							
Max Power	75 W	Transient Response	8 mS, full load to Half load, 120 VAC 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, 120VAC input	Start-up Time	2 sec. Typical@ start-up to full load, 120VAC input				
		Over temperature Protection	105°C Max, Hiccup-Mode, Auto-Recovery				

<sup>\*</sup> 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- 60°C (Full load)	-40°C- 85°C	5% - 95 %		

Compliance / Safety						
EMI/RFI:	CISPR-22 Class B FCC part 15 Class B EN 55015					
Safety Standards:	UL1012/1585, UL8750, UL879, UL Class 2 Wet locations , UL 48, cUL, CE, UL #: E342485 EN 61347-2-13, CCC, PSE					
Weatherability:	EN60529 IP 65					
Surge Immunity	Line - Line: 2.5kV Line - Earth: 4kV					

חוחוחוח	j Types		וווווע	ning Control
2. Consta 3. Outpu	1kHz, 1-100% ant Current, 10 t Voltage, 75-1 atible with SLD	00%	- [	1-10V DC Potentiometer Serial Comm. (2-wire) Wireless Remote
INPUT		UL3135 ra 18AW0		
OUTPUT (Standard)				

**Remote Dimming Options** 

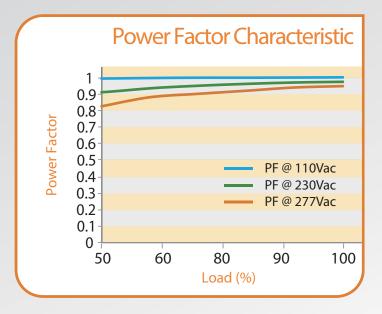
# Mechanical

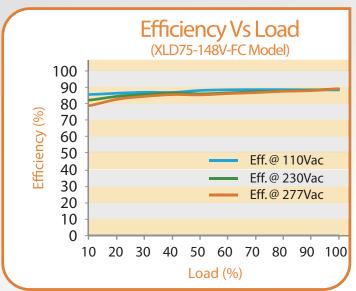
#### Material:

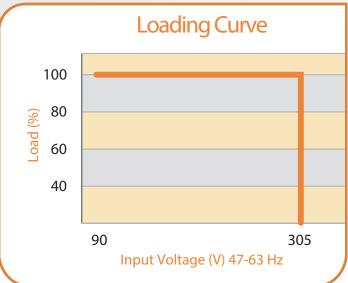
NEMA 3 Design with patented AC and DC Wiring compartments, fully potted PCB.

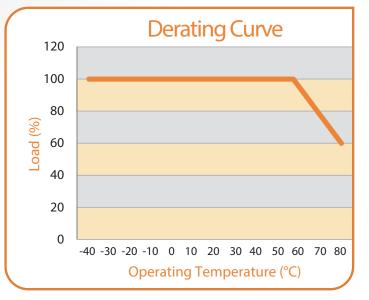


### **Reliabilities Curves**



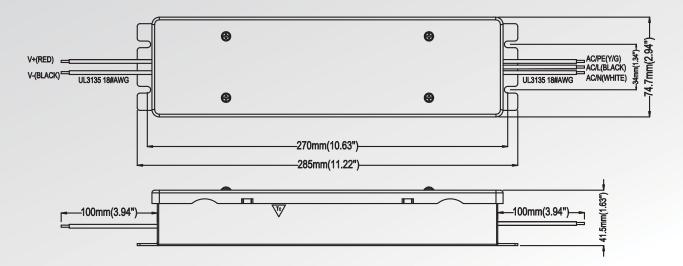






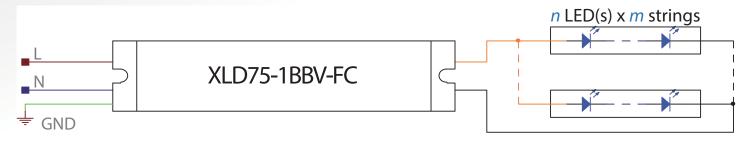


# **Mechanical Diagrams**



**Packing Information** Weight: 0.97 kg/pcs, 11.8kg/carton 12 pcs/carton; L322xW340xH180 (mm) US Patent Numbers: 7,154,755 & 7,738,253

# **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-FC	6 - 12	2 - 4	0.5 - 5.25	
XLD75-115V-FC	7.5 - 15	2 - 5	0.5 - 5.25	
XLD75-124V-FC	12 - 24	4 - 9	0.31 - 3.29	l <sub>out</sub>
XLD75-136V-FC	18 - 36	7 - 14	0.21 - 2.18	= m Strings
XLD75-148V-FC	24 - 48	9 - 18	0.16 - 1.64	
* LED Vf range: 2.7-3.6V				

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