

OPTOTRONIC® LED Power Supply OTi 85/120-277/2A0 DIMLT2 L- Technical Specifications



GENERAL INFORMATION	
Item Number	79470
Type	Constant Current, Class2, Class TL
Output Power	85W (Max.)
Programming tool	51645, 51647 & 51648
Software	Download
Programmable features	Output current Dimming level LED thermal protection Constant Lumen output End of life indicator

ELECTRICAL SPECIFICATIONS		
Input		
Input Voltage (VAC)	120V-277V (+/- 10%)	
Frequency Range (Hz)	50 – 60 Hz (+/- 10%)	
	120V	277V
Input Current (A)	0.85	0.37
THD @ Full load	< 20%	< 20%
Power Factor @ Full load	>0.9	>0.9
Efficiency @ Full load	≥ 85%	≥85%
Inrush Current (A _{pk})	30	68
Output		
Output Current (mA)	1.25–2.0A (1mA step) (Programmable)	
Output Voltage (VDC)	30-55VDC (Power limited)	
Output Ripple Current	<25% of DC value	
Max. Output power (W)	85W Max (Regulated)	
LED Power-up time	< 1 sec	
Load Regulation	<5%	
Line Regulation	<5%	
Over voltage protection	Yes, non- latching	
Over load protection	Yes, current fold back @87W	
Output short-circuit protection	Yes, latching	
LEDSet2 (LT2)		
LEDSet2	Available	
LED thermal protection (NTC)		
NTC value active range	≤ 25kΩ	
Output level minimum	User defined	

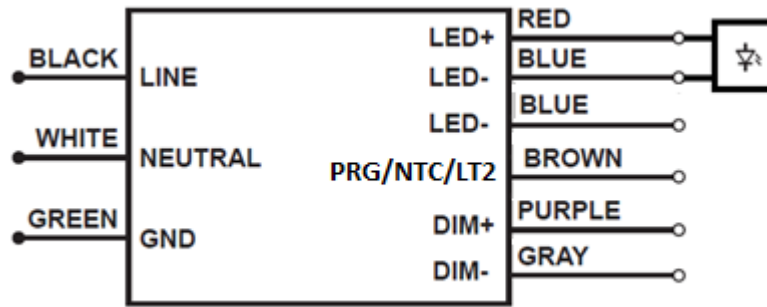
ELECTRICAL SPECIFICATIONS	
Dimming	
Dimming Control	0 – 10V (Isolated)
Dimming Range	10-100%
Dimming Type	Analog
Dimming Input Isolation	2.5KV
Source/Sink Current	<0.8mA

ENVIRONMENTAL SPECIFICATIONS	
Ambient Operating Temperature	-40 °C to 40 °C
Case Temperature (Tc)	80°C* 90°C (max)
Max. Storage Temp.	70°C
Max. Relative Humidity (%)	85% non condensing
Transient Protection	NEMA SSL1 - 2010 Non-Roadway 2.5KV
UL Environmental Rating	Dry & Damp, RoHS
UL File number	E320395 // Class TL
EMI Compliance	FCC Part 15 Class A
Sound Rating	Class A

*- Warranty applicable only at 80°C



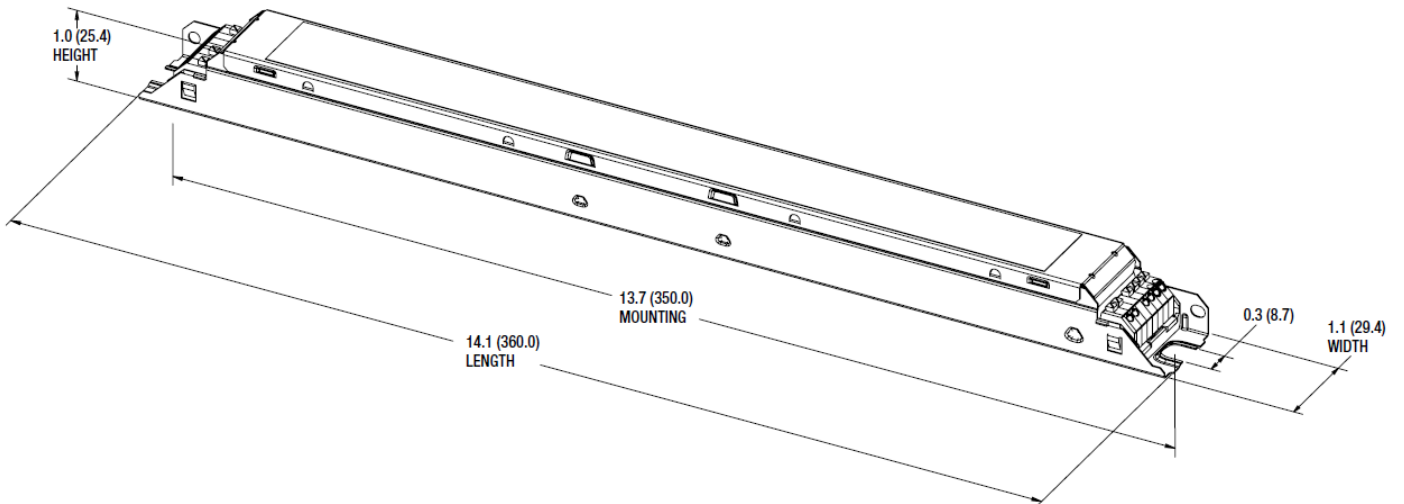
WIRING DIAGRAM



Note 1: Default current programmed on the Driver is 2A.

Note 2: Maximum suggested remote mounting distance is 16 feet. For additional information on further distances and EMI compliance reference OPTOTRONIC Technical Guide LED258

MECHANICAL DIAGRAM



MECHANICAL SPECIFICATIONS

Length	14.2" (360mm)
Width	1.2" (30mm)
Height	1.0" (25.4mm)
Mounting Distance	13.77" (350mm)