L12WCD050 Series



40-50W, 100~277Vac Input, Constant Current LED Driver

Features

- Power Rating: 40-50W
- Input Voltage: 100-277Vac
- Constant current design
- Fixed output current(850mA-1500mA)
- Efficiency to 88%
- 0-10V/PWM/Resistor Flicker Free Dimming
- Dimming range 10%-100%
- OCP, SCP
- IP65
- 5-year warranty

Application

- Indoor or outdoor lights
- Model List*(See part number scheme for model number details)



*Product images are for illustrative purposes only and may vary from actual design.

Model Number	Input	Input Output Output Output		Output			
	Voltage Range	Power	Voltage	Current Min.	Current Max.	Efficiency	Certification
L12WCD050S150PS	100~277Vac	48W	20-32V	1500mA	1500mA	86%	UL/cUL
L12WCD050S125PS	100~277Vac	50W	30-40V	1250mA	1250mA	88%	UL/cUL
L12WCD050S120PS	100~277Vac	43.2W	20-36V	1200mA	1200mA	88%	UL/cUL
L12WCD050S110PS	100~277Vac	49.5W	35-45V	1100mA	1100mA	88%	UL/cUL
L12WCD050S105PS	100~277Vac	47W	35-45V	1050mA	1050mA	88%	UL/cUL
L12WCD050S100PS	100~277Vac	48W	35-48V	1000mA	1000mA	88%	UL/cUL
L12WCD050S095PS	100~277Vac	48.5W	40-51V	950mA	950mA	88%	UL/cUL
L12WCD050S090PS	100~277Vac	48.6W	45-54V	900mA	900mA	88%	UL/cUL
L12WCD050S085PS	100~277Vac	48.5W	45-57V	850mA	850mA	88%	UL/cUL
Technical Data							
Input voltage range	100~277Vac						
Frequency	47-63Hz						
Power factor	> 0.9 under 100~277Vac input @Full load condition						
Inrush current	50A @230Vac						
Max input current	0.8A @Full load condition						
THD	20%@full load						
Current Precision	± 5% at full load condition						
Efficiency	86%-88%						
Ripple current	10%@full load						
Overshoot & Undershoot Response	±10% Input@277Vac; Output@ Max. Load						
Setup time	2S 100Vac input full load						

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Technical Datta(cont.)

Output Voltage Rise Time	100ms			
Protection	Over current protection: Hiccup mode. Protection will trigger when load current exceed specified output current and will auto recover after the fault mode is removed. Short circuit protection: Hiccup mode. Protection will trigger when short circuit and will an recover after the fault mode is removed.			
Dimming Range	10-100%			
Operating temperature	-30 to 60°C			
Storage temperature	-40 to 85°C			
Temperature Coefficient	90°C			
Operating humidity	20% to 90%			
Storage humidity	20% to 90%			
MTBF	50,000 hours at (~70°C case temp)			
Cooling	Air Cooling			
Burn-in Test	Input voltage applied to the LED driver 230Vac, Output Full load@ 40°C; 4 hours Burn-in Test			
Length (L)	6.37" (162mm)			
Width (W)	1.6" (40mm)			
Height (H)	1.06" (27mm)			
Mounting (M)	6.1" (155mm)			

Note: all parameters are rated under the condition of 25°C, Ripple current is subject to load.

Safety Compliance

UL/cUL	UL8750 /UL1310			
Dielectric Strength	Input to Output: 3000Vac 1 min. leakage current ≤5mA			
Isolation Independence	Input to Output: DC 500V 10M Ω min @ ambient temperature			
Disclaimer:				

<u>Disclaimer:</u> Autec Power Systems' (Autec) LED Drivers

Autec Power Systems' (Autec) LED Drivers are Hi-Pot tested during the manufacturing process. Autec assumes no responsibility for secondary Hi-Pot testing at customer location or designated production line(s). Should customer require further Hi-Pot testing, at their own production line, following assembly of the LED Driver into the customer's assembled fixture, Autec requests advance notice. This request must be communicated to Autec in a timely manner and is recommended to be requested at time of issuing each purchase order.



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PWM Dimming



■ Lifetime vs Case Temperature/min





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Wire Specifications				
Input	12", UL 1015 #18AWG (Black and White)			
Output	12", UL 1015 #18AWG (Red and Black)			
Dimming	12", UL 1015 #18AWG (Purple and Grey)			



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