

150Watts Single Output LED Driver



Features:

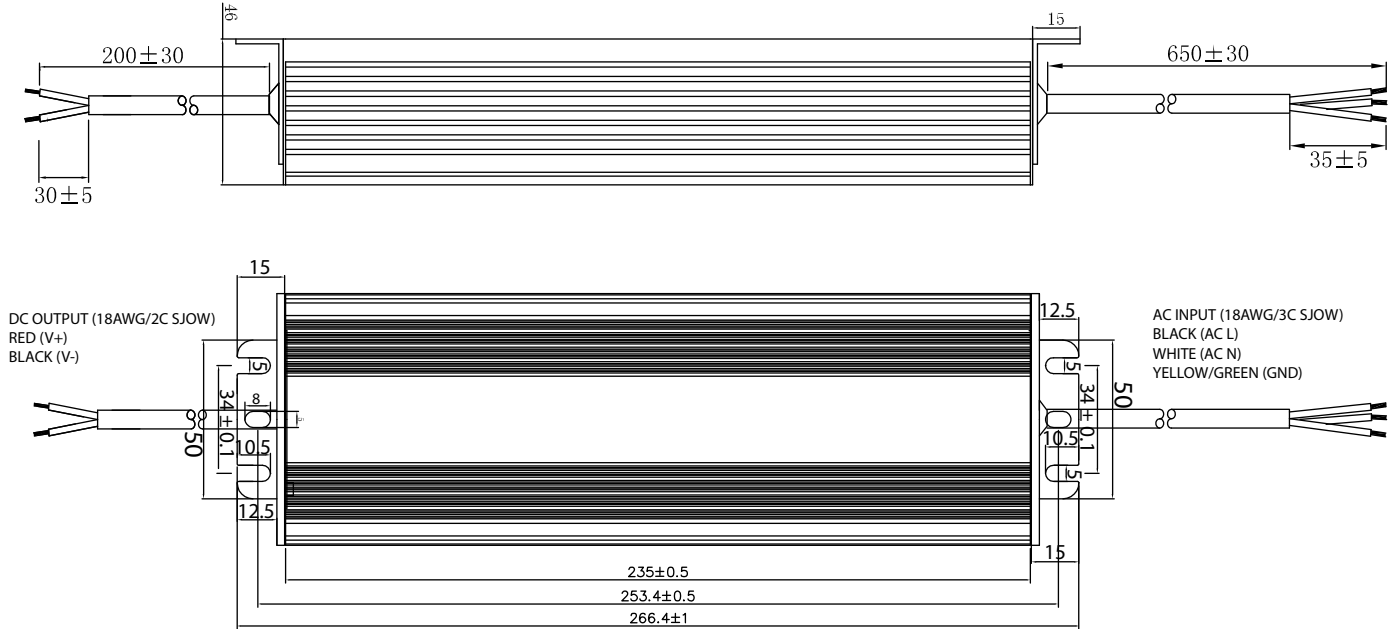
- Constant Current Design
- Universal AC input/ Full Range
- Built-in Active PFC function, PF 0.99 Typical
- High Efficiency (Up to 91%)
- Output Protections: OVP/SCP/OTP
- Lightning Protection
- Waterproof (IP67)
- 5 Year Warranty



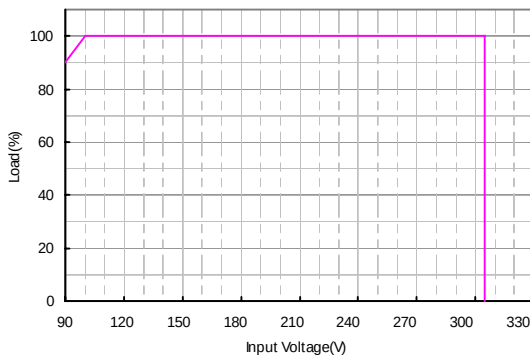
Model		PLC-150S070	PLC-150S105	PLC-150S140	PLC-150S175	PLC-150S210	PLC-150S245	PLC-150S280	PLC-150S315	PLC-150S350	PLC-150S420	PLC-150S490	PLC-150S595
Output Characteristics													
Rated Current		0.70A	1.05A	1.40A	1.75A	2.10A	2.45A	2.80A	3.15A	3.50A	4.20A	4.90A	5.95A
Voltage Range		128~214V	85~142V	64~107V	51~85V	42~71V	36~61V	31~53V	28~47V	25~42V	21~35V	18~30V	15~25V
Ripple and Noise (max) Note 1		±10% Vo											
Voltage Accuracy		±5% Vo											
Line Regulation		±1% Vo											
Load Regulation		±2% Vo											
Rise Time		20mS Max @ Rated Load											
Hold-up Time (Typ.)		8.5mS Min (110VAC input, full load), 10mS Min (220VAC input, full load)											
Input Characteristics													
Voltage Range		90VAC~305VAC											
Frequency Range		47Hz-63Hz											
Power Factor (Typical)	110VAC	>0.99	>0.99	>0.99	>0.99	>0.99	>0.99	>0.99	>0.99	>0.99	>0.99	>0.99	>0.99
	220VAC	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95
Efficiency (Typical)		91%	91%	91%	91%	91%	91%	91%	91%	90%	90%	90%	90%
AC Current (max)		1.0A @ 100-277VAC Input Full Load											
Inrush Current (max)		75A @ 230VAC, 25°C											
Leakage Current		1.0mA max @ 277VAC											
Protection													
Over Temperature (OTP)		110°C (Temperature of internal components); shut down, auto recover after the temperature decreases											
Over Voltage (OVP) Note 2		1.2~1.4Vo											
Short Circuit (SCP)		Long-term mode, auto recovery											
Environmental Characteristics													
Operating Temperature		-35°C~70°C											
Operating Relative Humidity		10% RH to 100% RH											
Storage Temperature		-40°C~85°C, 5% to 100% RH non-condensing											
Vibration		10 to 300Hz sweep at constant acceleration of 1.0G(Breadth: 3.5mm) for 1 Hour for each of the perpendicular axes X, Y, Z											
Waterproof Rating		IP67											
Safety Standards		UL8750, Compliance to UL1012 UL935, IEC61347											
Withstand Voltage		L/N-GND: 4kV, L-N: 2kV											
Isolation Resistance		I/P-O/P: >100M Ohms / 500VDC / 25°C / 70% RH											
EMC Emission		Compliance to EN55022(CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3											
EMC Immunity		Compliance to EN61000-3-2, 3 EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547											
Characteristics													
Life Time		More than 50,000Hrs (25°C, 80% Load)											
MTBF (MIL-HDBK-217F)		More than 375,000Hrs (25°C, 80% Load)											
Dimension (LxWxH)		266.4x79.5x46mm											
Note		1. Ripple & Noise: Measured by 20 MHz bandwidth oscilloscope and the output paralleled with a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor. 2. Latch Mode: The power supply shall return to normal operation only after the power is turned on again											

MECHANICAL SPECIFICATIONS

UNIT: mm



Derating Curve



Ambient Temperature vs. Load

