

100Watts Single Output LED Driver



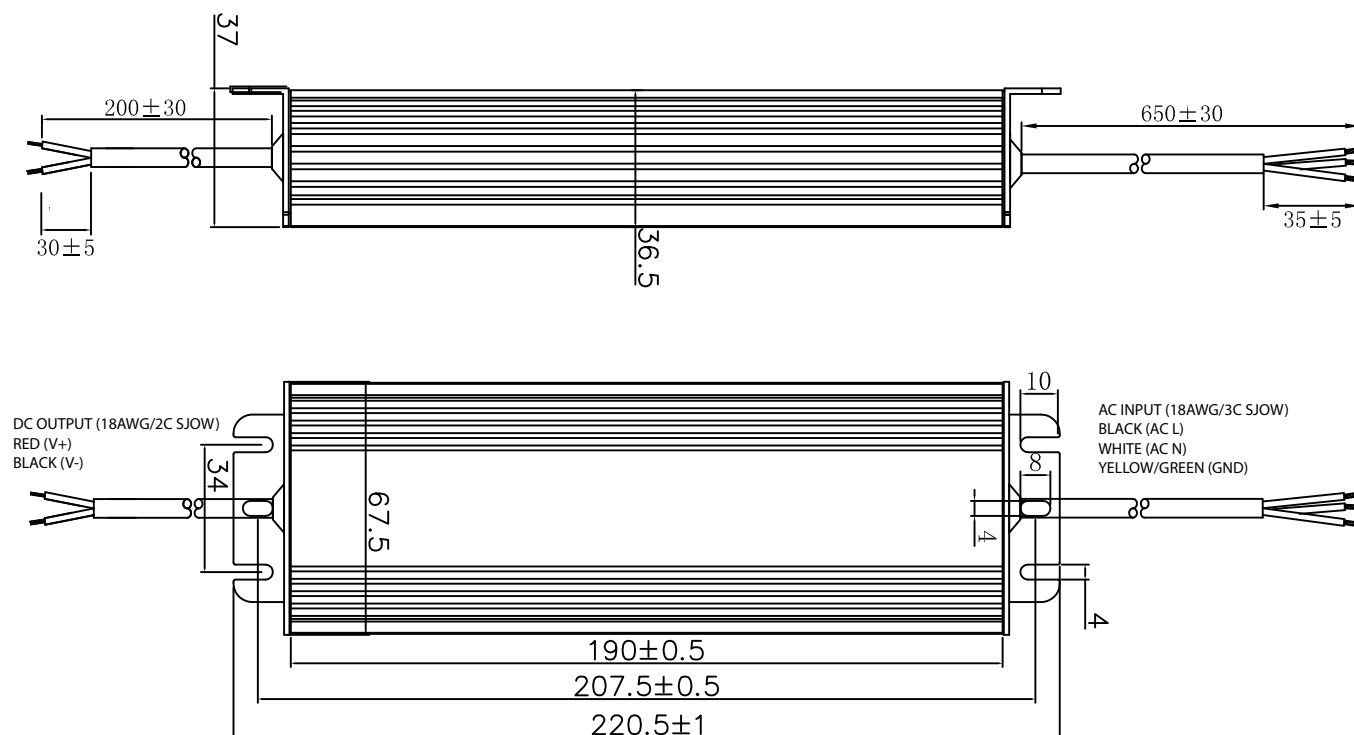
Features:

- Constant Current Design
- Universal AC input/ Full Range
- Built-in Active PFC function, PF 0.99 Typical
- High Efficiency (Up to 92%)
- Output Protections: OVP/SCP/OTP
- Lightning Protection
- Waterproof (IP67)
- 5 Year Warranty

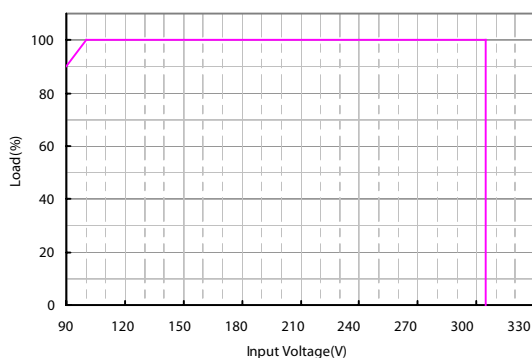
Model		PLC-100S035	PLC-100S045	PLC-100S070	PLC-100S105	PLC-100S140	PLC-100S175	PLC-100S210	PLC-100S245	PLC-100S280	PLC-100S315	PLC-100S357	PLC-100S420
Output Characteristics													
Rated Current		0.35A	0.45A	0.70A	1.05A	1.40A	1.75A	2.10A	2.45A	2.80A	3.15A	3.57A	4.20A
Voltage Range		143~286V	111~222V	71~143V	47~95V	35~71V	28~57V	24~48V	20~41V	18~36V	16~32V	14~28V	12~24V
Ripple and Noise (max) Note 1		±8% Vo											
Voltage Accuracy		±5% Vo											
Line Regulation		±1% Vo											
Load Regulation		±2% Vo											
Rise Time		20mS Max @ Rated Load											
Hold-up Time (Typ.)		10mS Min (110VAC input, full load), 20mS 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)		92%	92%	91%	91%	91%	91%	91%	91%	91%	90.5%	90.5%	90.5%
AC Current (max)		1.0A @ 100-277VAC Input Full Load											
Inrush Current (max)		65A @ 230VAC, 25°C											
Leakage Current		0.75mA 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		1.30Vo	1.30Vo	1.30Vo	1.30Vo	1.30Vo	1.30Vo	1.10Vo	1.10Vo	1.30Vo	1.30Vo	1.30Vo	1.30Vo
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 475,000Hrs (25°C, 80% Load)											
Dimension (LxWxH)		220.5x67.5x37mm											
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

100V_{ac}277V_{ac}

Ambient Temperature vs. Load

