

# 150Watts Single Output LED Driver



### Features:

- Constant Voltage Design
- Universal AC input/ Full Range
- Built-in Active PFC function, PF 0.99 Typical
- High Efficiency (Up to 94%)
- Output Protections: OLP/OVP/SCP/OTP
- Lightning Protection
- Waterproof (IP67)
- 5 Year Warranty

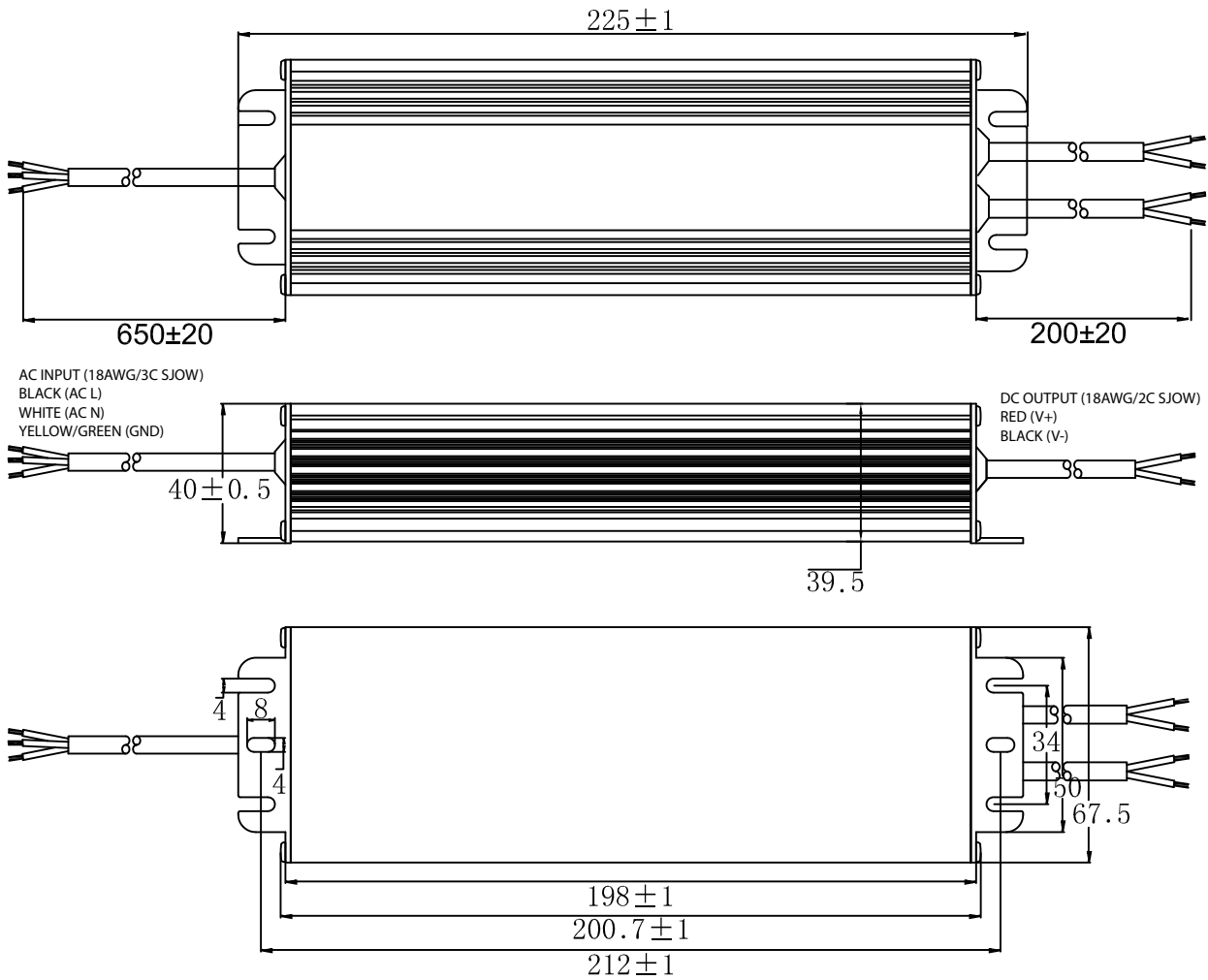


Model	PLV-150S012	PLV-150S024	PLV-150S036	PLV-150S042	PLV-150S048	PLV-150S050	PLV-150S052	PLV-150S054	PLV-150S056	PLV-150S081	PLV-150S105
<b>Output Characteristics</b>											
DC Output	12V	24V	36V	42V	48V	50V	52V	54V	56V	81V	105V
Rated Current	12.50A	6.25A	4.17A	3.57A	3.125A	3.00A	2.88A	2.78A	2.68A	1.85A	1.43A
Current Range	0~12.50A	0~6.25A	0~4.17A	0~3.57A	0~3.125A	0~3.00A	0~2.88A	0~2.78A	0~2.68A	0~1.85A	0~1.43A
Ripple and Noise (max) <small>Note 1</small>	±2% Vo										
Voltage Accuracy	±2% 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)										
<b>Input Characteristics</b>											
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
	220VAC	>0.97	>0.97	>0.97	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95
Efficiency (Typical)	92%	93%	93%	93%	93%	93%	93%	93%	93%	94%	94%
AC Current (max)	2.0A @ 100-277VAC Input Full Load										
Inrush Current (max)	50A @ 230VAC, 25°C										
Leakage Current	0.75mA max @ 277VAC										
<b>Protection</b>											
Over Load (OLP)	110%-180% (135% Typ.) of rated output current, hiccup mode, auto recovery										
Over Temperature (OTP)	110°C (Temperature of internal components); shut down, auto recover after the temperature decreases										
Over Voltage (OVP) <small>Note 2</small>	1.2~1.4Vo										
Short Circuit (SCP)	Long-term mode, auto recovery										
<b>Environmental Characteristics</b>											
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										
<b>Characteristics</b>											
Life Time	More than 50,000Hrs (25°C, 80% Load)										
MTBF (MIL-HDBK-217F)	More than 265,000Hrs (25°C, 80% Load)										
Dimension (LxWxH)	225x67.5x40mm										
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

PLV-150S012

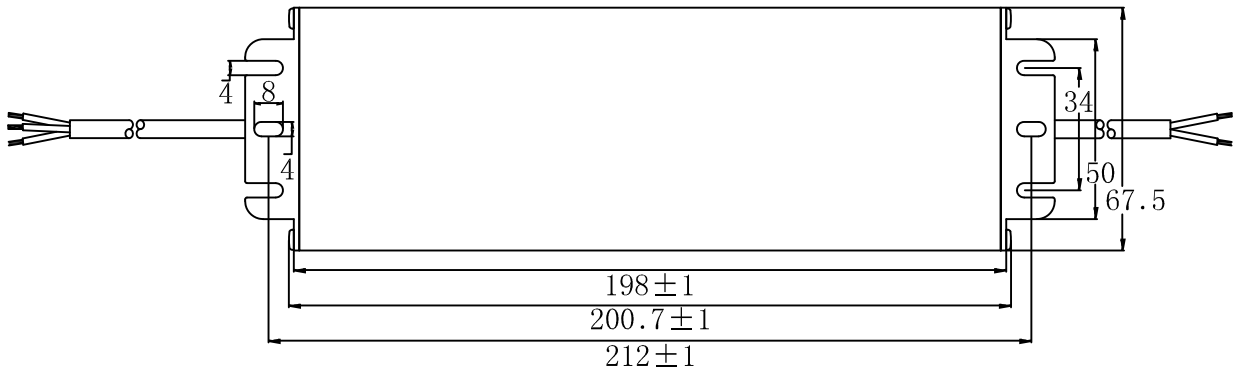
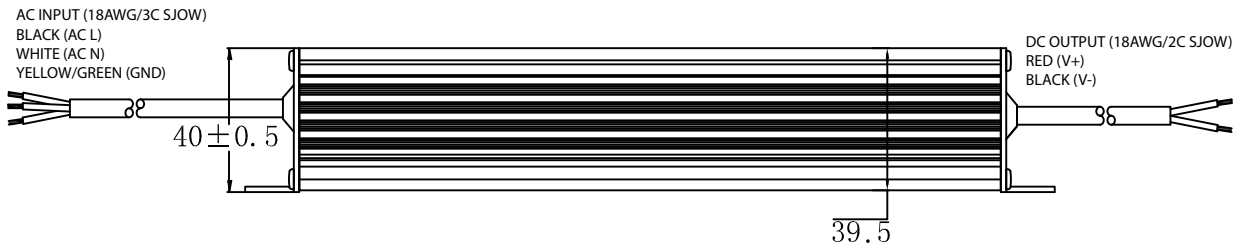
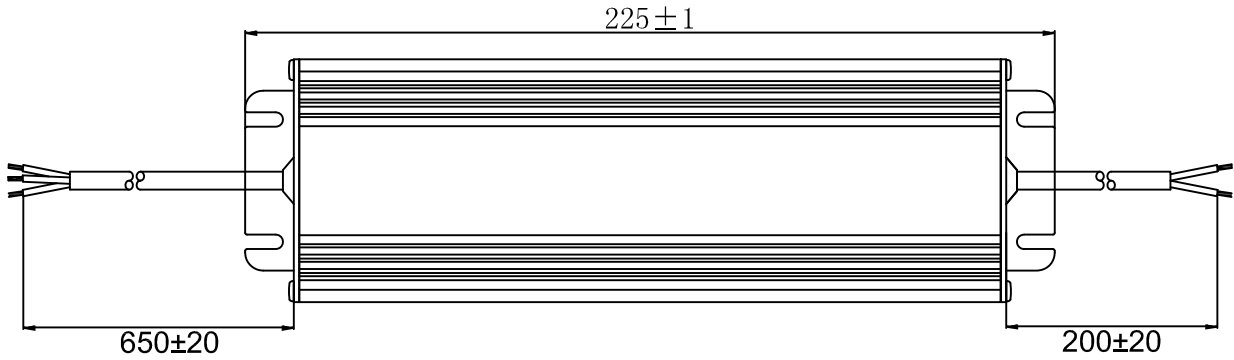


Note: The 2 DC output cables are connected in parallel internally because one #18 AWG wire can only carry 10A. Please connect the 2 red wires together and 2 black wires together, or ensure each cable carries the same current.

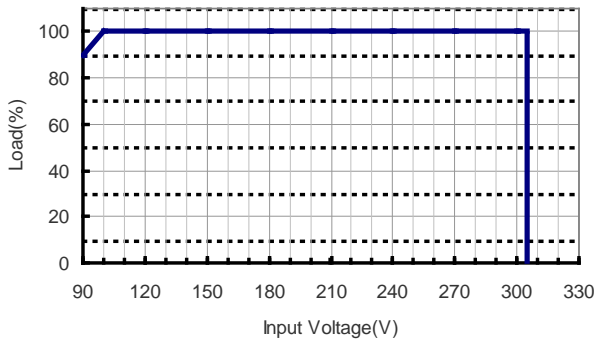
# MECHANICAL SPECIFICATIONS

UNIT: mm

## OTHERS



Derating Curve



Ambient Temperature vs. Load

