

**Features:**

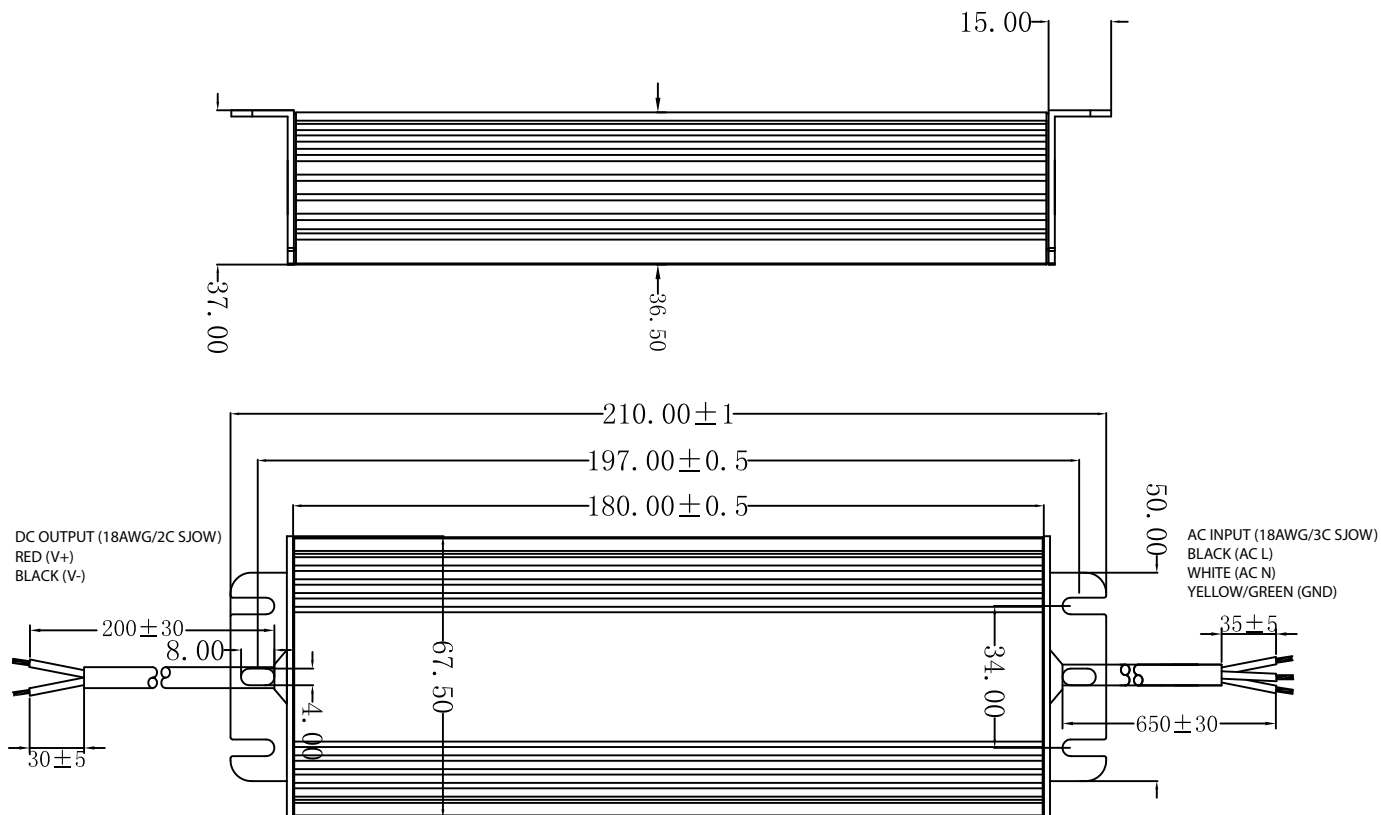
- Constant Voltage Design
- Universal AC input/ Full Range
- Built-in Active PFC function, PF 0.99 Typical
- High Efficiency (Up to 93%)
- Output Protections: OLP/OVP/SCP/OTP
- Lightning Protection
- Waterproof (IP67)
- 5 Year Warranty



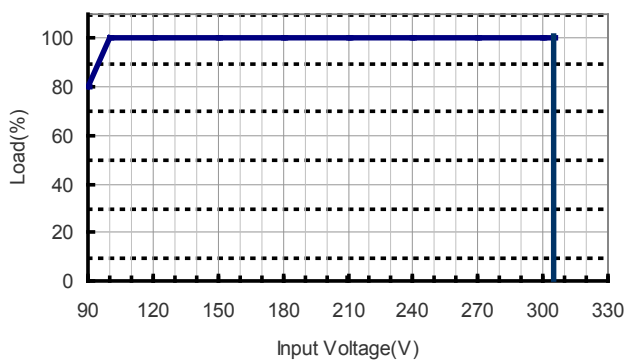
Model		PLV-100S036	PLV-100S042	PLV-100S048	PLV-100S054	PLV-100S081	PLV-100S105
Output Characteristics							
DC Output		36V	42V	48V	54V	81V	105V
Rated Current		2.77A	2.38A	2.08A	1.85A	1.23A	0.95A
Current Range		0~2.77A	0~2.38A	0~2.08A	0~1.85A	0~1.23A	0~0.95A
Ripple and Noise (max) Note 1		±10% Vo					
Voltage Accuracy		±5% Vo					
Line Regulation		±1% Vo					
Load Regulation		±2% Vo					
Rise Time		20mS Max @ Rated Load					
Hold-up Time (Typ.)		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
	220VAC	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95
Efficiency (Typical)		92%	92%	92%	93%	93%	93%
AC Current (max)		1.5A @ 100-277VAC Input Full Load					
Inrush Current (max)		70A @ 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		1.2~1.4Vo					
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 450,000Hrs (25°C, 80% Load)					
Dimension (LxWxH)		210.5x67.5x37mm					
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



Ambient Temperature vs. Load

