



**Features:**

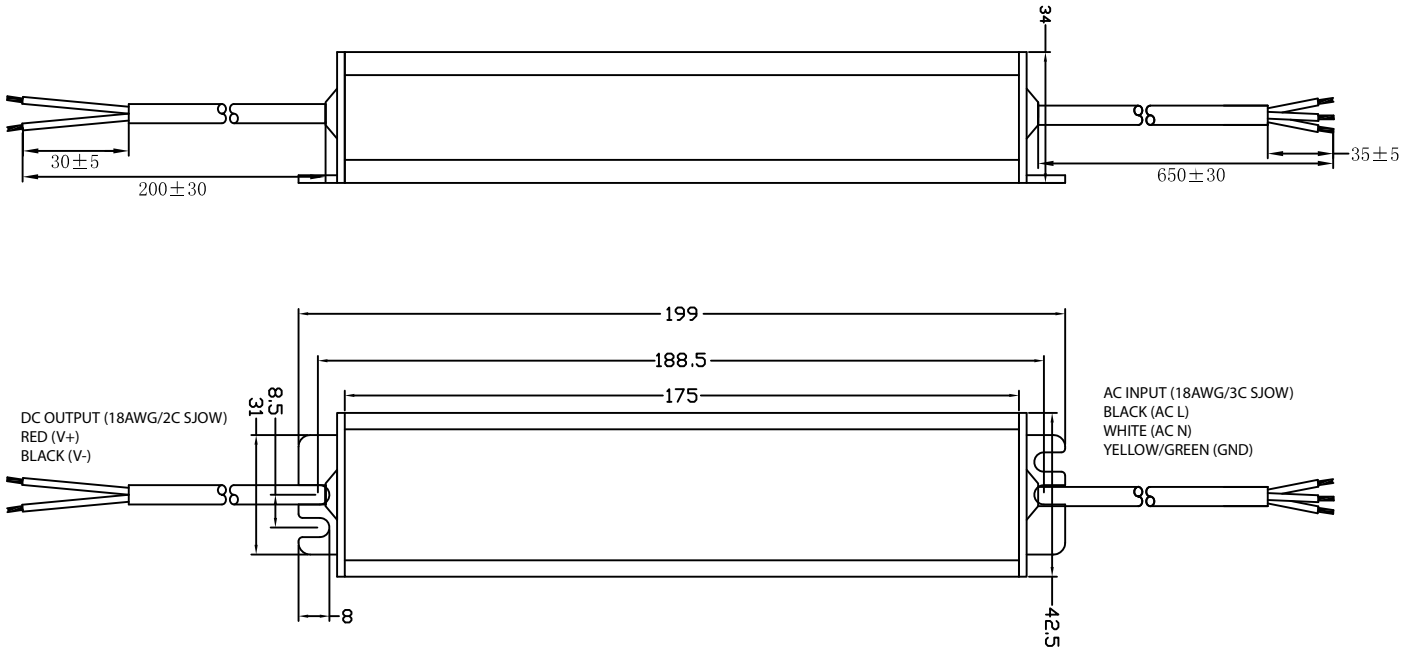
- Constant Current Design
- Universal AC input/ Full Range
- Built-in Active PFC function, PF 0.98 Typical
- High Efficiency (Up to 89%)
- Output Protections: OVP/SCP/OTP
- Lightning Protection
- Class 2 Power Unit (See Note)
- Waterproof (IP67)
- 5 Year Warranty



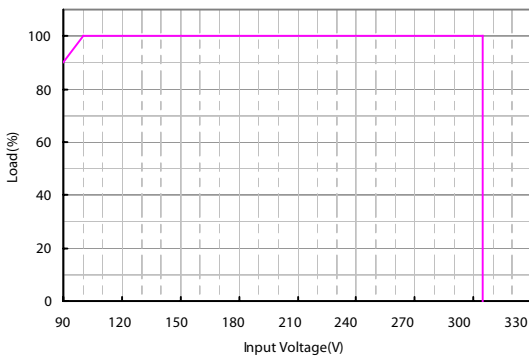
Model	PLC-050S035	PLC-050S045	PLC-050S070	PLC-050S110	PLC-050S140	PLC-050S175	PLC-050S210	PLC-050S280	PLC-050S330	PLC-050S420
<b>Output Characteristics</b>										
Rated Current <small>See Note</small>	0.35A (1)	0.45A (1)	0.70A (1)	1.10A (2)	1.40A (3)	1.75A (3)	2.10A (3)	2.80A (3)	3.30A (1)	4.20A (1)
Voltage Range	47~142V	37~110V	24~72V	16~48V	12~36V	10~29V	8~24V	6~18V	5~15V	4~12V
Ripple and Noise (max) <small>Note 1</small>	±10% Vo									
Voltage Accuracy	±5% Vo									
Line Regulation	±1% Vo									
Load Regulation	±3% Vo									
Rise Time	20mS Max @ Rated Load									
Hold-up Time (Typ.)	8.5mS Min (110VAC input, full load), 10mS Min (220VAC input, full load)									
<b>Input Characteristics</b>										
Voltage Range	90VAC~305VAC									
Frequency Range	47Hz-63Hz									
Power Factor (Typical)	110VAC	>0.98	>0.98	>0.98	>0.98	>0.98	>0.98	>0.98	>0.98	>0.98
	220VAC	>0.92	>0.92	>0.92	>0.92	>0.92	>0.92	>0.92	>0.92	>0.92
Efficiency (Typical)		89%	88%	87%	87%	87%	87%	86%	84%	84%
AC Current (max)	0.8A @ 100-277VAC Input Full Load									
Inrush Current (max)	65A @ 230VAC, 25°C									
Leakage Current	0.5mA max @ 277VAC									
<b>Protection</b>										
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 490,000Hrs (25°C, 80% Load)									
Dimension (LxWxH)	199x42.5x34mm									
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  (1) Non-Class 2 output (USR & CNR) (2) Class 2 output (USR); Non-Class 2 output (CNR) (3) Class 2 output (USR & CNR)									

# MECHANICAL SPECIFICATIONS

UNIT: mm



Derating Curve



Ambient Temperature vs. Load

