



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Features:

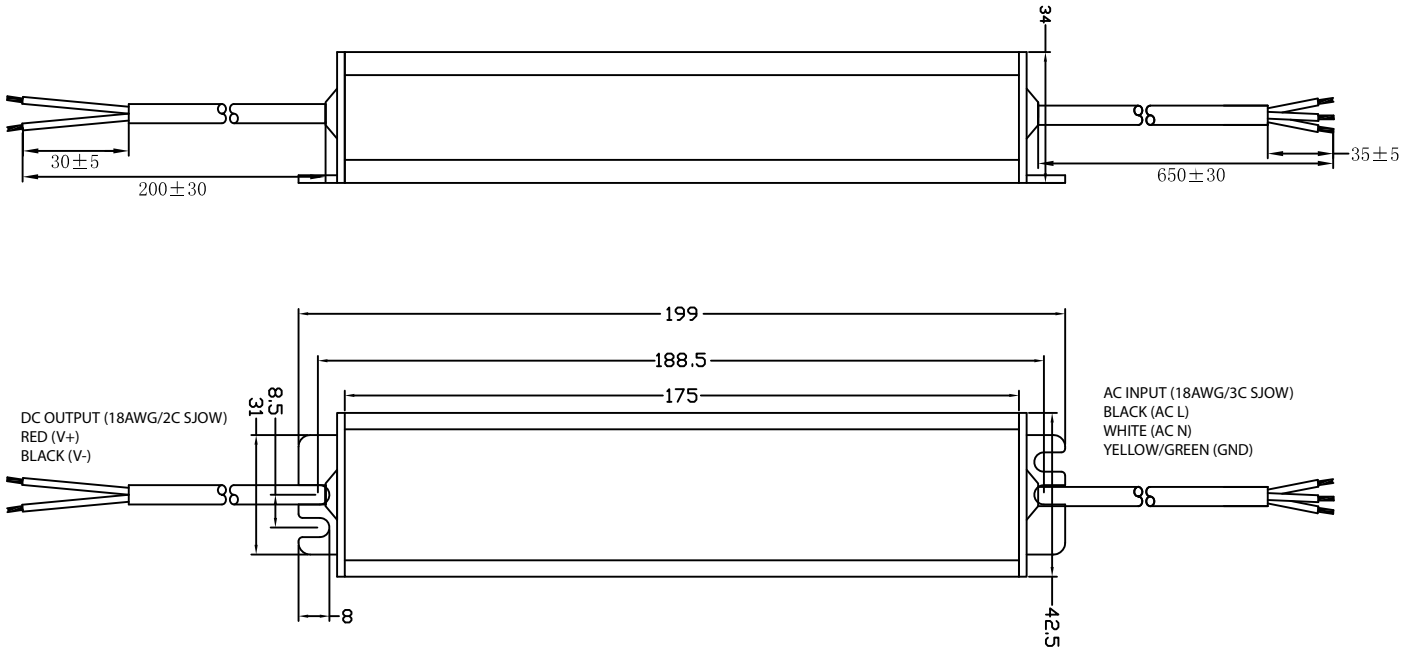
- Constant Current Design
- Universal AC input/ Full Range
- Built-in Active PFC function, PF 0.98 Typical
- High Efficiency (Up to 89%)
- Output Protections: OVP/SCP/OTP
- Lightning Protection
- Class 2 Power Unit (See Note)
- Waterproof (IP67)
- 5 Year Warranty



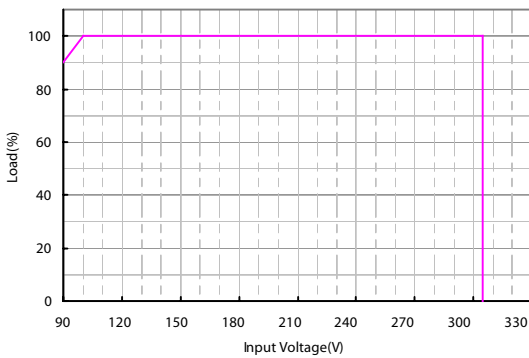
Model	PLC-050S035	PLC-050S045	PLC-050S070	PLC-050S110	PLC-050S140	PLC-050S175	PLC-050S210	PLC-050S280	PLC-050S330	PLC-050S420
Output Characteristics										
Rated Current <small>See Note</small>	0.35A (1)	0.45A (1)	0.70A (1)	1.10A (2)	1.40A (3)	1.75A (3)	2.10A (3)	2.80A (3)	3.30A (1)	4.20A (1)
Voltage 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)									
Input Characteristics										
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									
Protection										
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									
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 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

