



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!



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Features:

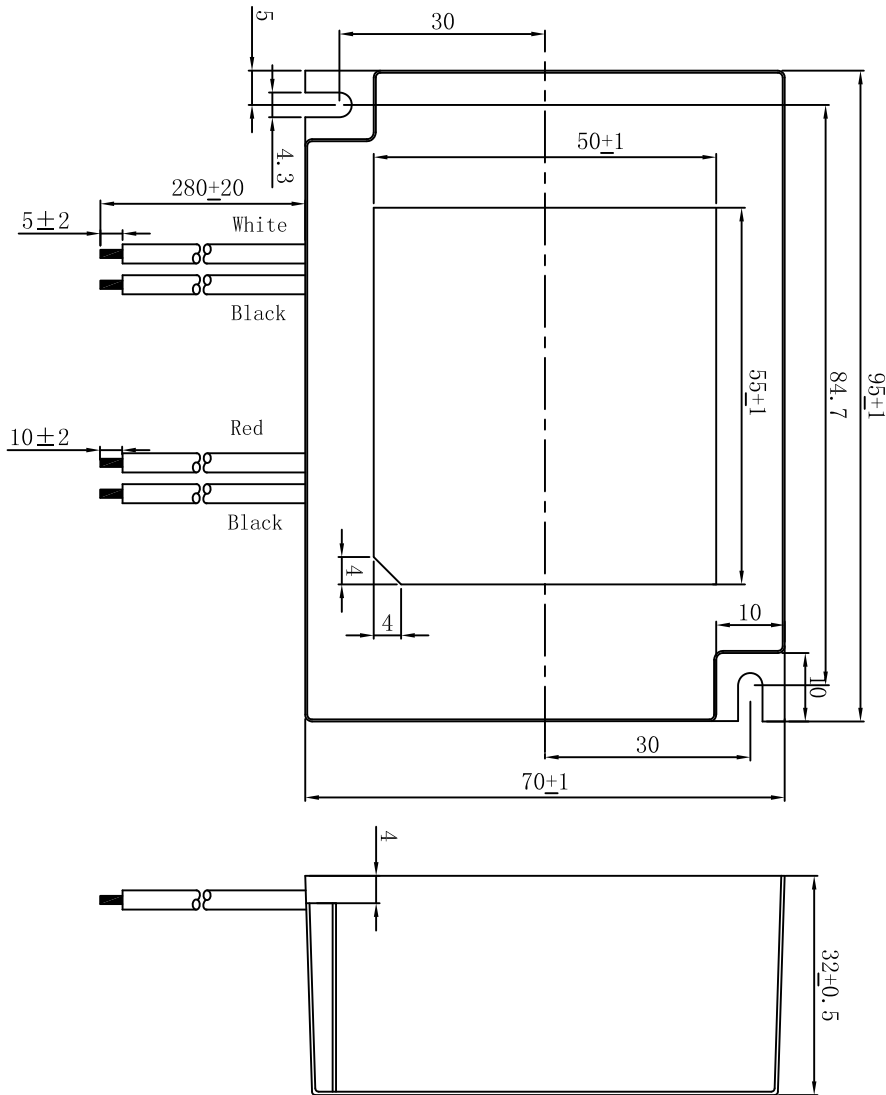
- Constant Voltage Design
- Universal AC input/ Full Range
- Built-in Active PFC function, PF 0.95 Typical
- High Efficiency (Up to 87%)
- Output Protections: OLP/OVP/SCP/OTP
- Lightning Protection
- Class 2 Power Unit (See Note)
- Waterproof (IP65)
- 3 Year Warranty



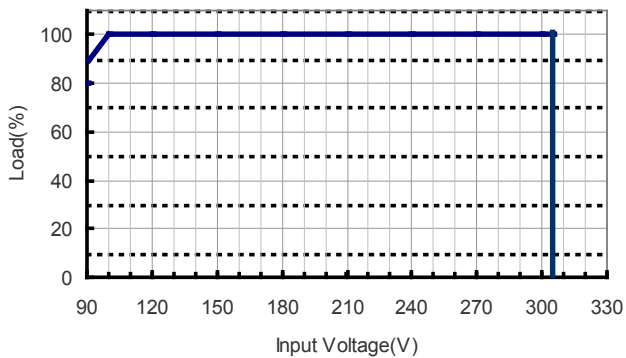
Model	PLV-040S012	PLV-040S018	PLV-040S024	PLV-040S036	PLV-040S048
Output Characteristics					
DC Output	12V	18V	24V	36V	48V
Rated Current <small>See Note</small>	3.00A (3)	2.00A (3)	1.50A (3)	1.05A (3)	0.80A (2)
Current Range	0~3.00A	0~2.00A	0~1.50A	0~1.05A	0~0.80A
Ripple and Noise (max) <small>Note 1</small>	±10% Vo				
Voltage Accuracy	±5% Vo				
Line Regulation	±1% Vo				
Load Regulation	±5% Vo				
Rise Time	50mS 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	>0.95	>0.95	>0.95	>0.95
	220VAC	>0.90	>0.90	>0.90	>0.90
Efficiency (Typical)	84%	85%	86%	87%	87%
AC Current (max)	0.60A @ 100-277VAC Input Full Load				
Inrush Current (max)	65A @ 230VAC, 25°C				
Leakage Current	0.50mA max @ 277VAC				
Protection					
Over Load (OLP)	110%~170% (150% 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>	1.2~1.7Vo				
Short Circuit (SCP)	Long-term mode, auto recovery				
Environmental Characteristics					
Operating Temperature	-25°C~50°C				
Operating Relative Humidity	5% RH to 95% RH				
Storage Temperature	-35°C~70°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	IP65				
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 78,000Hrs (25°C, 80% Load)				
MTBF (MIL-HDBK-217F)	More than 490,000Hrs (25°C, 80% Load)				
Dimension (LxWxH)	95x70x32mm				
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

