



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 0.99 Typical
- High Efficiency (Up to 93%)
- Output Protections: OLP/OVP/SCP/OTP
- Lightning Protection
- Waterproof (IP67)
- 5 Year Warranty



Model	PLV-100S012	PLV-100S024	PLV-100S036	PLV-100S042	PLV-100S048	PLV-100S054	PLV-100S081	PLV-100S105
Output Characteristics								
DC Output	12V	24V	36V	42V	48V	54V	81V	105V
Rated Current	8.33A	4.16A	2.77A	2.38A	2.08A	1.85A	1.23A	0.95A
Current Range	0~8.33A	0~4.16A	0~2.77A	0~2.38A	0~2.08A	0~1.85A	0~1.23A	0~0.95A
Ripple and Noise (max) <small>Note 1</small>	±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	>0.99
	220VAC	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95
Efficiency (Typical)	93%	91%	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 Load (OLP)	110%~195% (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							
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							

