

TECHNICAL DATA SHEET

PBL600L-120 PBL600L-240

DESCRIPTION

This 600W open frame power supply delivers high-density performance and reliable efficiency, providing a compact yet powerful energy backbone for demanding industrial applications.

PBL600L-120



PBL600L-240



Features

Class I design
High Efficiency Performance
OVP, OCP, SCP, OTP Protections
Operating Altitude: 5,000M

Applications



PoE & IoT

Certifications & compliance

IEC/EN/UL 62368-1
CE/FCC

Technical Summary

Parameters	Value
Input Voltage range	100-240VAC
Output voltage	PBL600L-120 12V, PBL600L-240 24V
Efficiency	PBL600L-120 $\geq 90\%$ (At 115 Vac) , $\geq 93\%$ (At 230 Vac) PBL600L-240 $\geq 90\%$ (At 115 Vac) , $\geq 94\%$ (At 230 Vac)
Output power	600W(with Fan)
Dimensions	L 127 × W 76 × H 41.6 (mm) / L 5" × W 3" × H 1.64" (Inch)
Weight	Open Frame : 468g (Ref.)



TECHNICAL DATA

Input

AC input voltage	100-240Vac
Line Frequency	50-60Hz
AC input current	7.0-2.7A
Protection	Internal Primary Current Fuse

Output

Load Regulation	± 5% (Typical)
Ripple & Noise	≤1% Vp-p @ Full Load
Transient (Dynamic) Response	0.5mS for 50% Load Change Typical
Start-up Time	< 3,000mS
Hold-up Time	≥10mS @ Full Load
Rise Time	< 50mS
Protection	Short Circuit Protection/ Over Voltage Protection/ Over Current Protection/ Over Temperature Protection

Safety Approvals

Approvals	CB / UL / cUL / FCC / CE / T-mark
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Electrical

Topology	LLC
Dielectric Withstand	4,000VAC Primary - Secondary
Touch Current	<100μA
Earth Leakage Current	<5mA
MTBF	300,000 Calculated Hours at 25°C, by Telcordia SR-332

Environmental

Operating Temperature	-20 to +50°C
Storage Temperature	-20 to +80°C
Operating Altitude	5,000M
Relative Humidity	Operating: 20 to 80% RH Storage: 10 to 90% RH
Cooling	400W (12V 360W) with Convection Cooling 600W with Forced Cooling

Mechanical

Dimension	L 127 × W 76 × H 41.6 (mm) L 5" × W 3" × H 1.64" (Inch)
Weight	Open Frame : 468g (Ref.)

PHIHONG 50 YEARS OF HISTORY IN THE POWER SUPPLIES INDUSTRY

Since its founding in 1972, Phihong has emerged as a prominent power supply company, serving as a key supplier of solutions for consumer, mobile/portable, enterprise, telecom, datacom, and industrial applications.

