

TECHNICAL DATA SHEET

PBL450L-120 PBL450L-240 PBL450L-480

DESCRIPTION

This 450W open frame power supply delivers high-density performance and reliable efficiency, providing a compact yet powerful energy backbone for demanding industrial applications.



Features

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

Applications



PoE & IoT

Certifications & compliance

IEC/UL 62368-1
CE/FCC

Technical Summary

Parameters	Value
Input Voltage range	100-240VAC
Output voltage	PBL450L-120 12V, PBL450L-240 24V, PBL450L-480 48V
Efficiency	90% Typical (12 V max. load, 12 V and 5V no load at 115 Vac) 92% Typical (12 V max. load, 12 V and 5V no load at 230 Vac) 92% Typical (24 V max. load, 12 V and 5V no load at 115 Vac) 94% Typical (24 V max. load, 12 V and 5V no load at 230 Vac) 92% Typical (48 V max. load, 12 V and 5V no load at 115 Vac) 94% Typical (48 V max. load, 12 V and 5V no load at 230 Vac)
Output power	PBL450L-120 462W(with Fan) PBL450L-240 463W(with Fan) PBL450L-480 463W(with Fan)
Dimensions	L 127 x W 76 x H 34 (mm) / L 5" x W 3" x H 1.34" (inch)



TECHNICAL DATA

Input

AC input voltage	100-240Vac
Line Frequency	50-60Hz
AC input current	5.3-2.2A
Protection	Internal Primary Current Fuse

Output

Load Regulation	± 5% (Typical)
Ripple & Noise	≤2% 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
-----------	-----------------------------------

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	250W with Convection Cooling 450W with Forced Cooling

Mechanical

Dimension	L 127 x W 76 x H 34 (mm) L 5" x W 3" x H 1.34" (inch)
Weight	390g (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.

