

TECHNICAL DATA SHEET

PBL300M-120 PBL300M-240

DESCRIPTION

This 300W open frame power supply delivers high-density performance and reliable efficiency, providing a compact yet powerful energy backbone for demanding industrial applications.

PBL300M-120



PBL300M-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	PBL300M-120 12V, PBL300M-240 24V
Efficiency	PBL300M-120 93.5 % typ. (main output @ 230Vac / 50Hz, full load) PBL300M-240 94.5 % typ. (main output @ 230Vac / 50Hz, full load)
Output power	300W(with Fan)
Dimensions	L 101.6 × W 50.8 × H 38.1 (mm)/ L 4" × W 2" × H 1.5" (Inch)
Weight	Open Frame: 240g (Ref.)



TECHNICAL DATA

Input

AC input voltage	100-240Vac
Line Frequency	50-60Hz
AC input current	3.5 - 1.5A
Protection	Internal Primary Current Fuse

Output

Load Regulation	± 3% (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
Efficiency	Meet DoE Level VII, ErP Stage 2
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	200W with Convection Cooling 300W with Forced Cooling

Mechanical

Dimension	L 101.6 × W 50.8 × H 38.1 (mm) L 4" × W 2" × H 1.5" (Inch)
Weight	Open Frame: 240g (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.

