

ABB Bailey Power Supply Module

PHARPS32000000 - Technical Specifications

The ABB Bailey PHARPS32000000 Power Supply Module is a high-performance component designed for the INFI 90 Distributed Control System (DCS). It provides stable and efficient DC power to system modules, ensuring reliable and continuous operation even under demanding industrial conditions. Key features include wide input voltage compatibility, high conversion efficiency, robust protection functions, and compliance with industrial standards. This module is widely used in industries such as oil and gas, chemical processing, power generation, and manufacturing automation.

Parameter	Specification
Model	PHARPS32000000
Manufacturer	ABB Bailey
Input Voltage	85–264 VAC, 47–63 Hz
Output Voltage	24 VDC $\pm 2\%$
Output Current	5 A Continuous
Power Rating	120 W
Efficiency	$\geq 88\%$
Ripple & Noise	$< 100 \text{ mVpp}$
Protection	Overvoltage, Overcurrent, Short-circuit
Operating Temperature	-10°C to $+60^{\circ}\text{C}$
Storage Temperature	-25°C to $+85^{\circ}\text{C}$
Humidity	5%–95% RH, Non-condensing
Cooling Method	Natural Convection
Isolation Voltage	Input to Output: 3.0 kVAC
Dimensions (W×H×D)	130 × 120 × 50 mm
Weight	0.85 kg

Additional Technical Details and Applications

The PHARPS32000000 module integrates advanced power management circuitry to ensure high reliability and precise voltage regulation. Its design adheres to ABB's strict quality standards and provides excellent electromagnetic compatibility (EMC) and low noise emissions. It supports redundancy configurations and can operate seamlessly with other power modules in parallel mode to ensure system uptime. The unit has built-in diagnostic LEDs for easy monitoring of operational status, fault detection, and maintenance feedback. Applications include: - INFI 90 and Symphony DCS systems - Power distribution in control cabinets - Redundant power setups in automation systems - Continuous process industries requiring uninterrupted DC power supply

Specification Area	Details
Mounting Type	DIN Rail / Panel Mounting
Connector Type	Plug-in Terminal Block
MTBF (Mean Time Between Failures)	> 500,000 hours
Compliance Standards	CE, UL, RoHS, IEC 61010-1
Cooling Type	Natural Air Flow (No Fan)
Startup Time	< 2 seconds
Hold-up Time	> 20 ms at 230 VAC
Line Regulation	< $\pm 0.5\%$
Load Regulation	< $\pm 1\%$
Insulation Resistance	> 100 M Ω @ 500 VDC
Ground Leakage Current	< 1.0 mA at 240 VAC
Vibration Resistance	10–500 Hz, 2G, 10 min/cycle, XYZ axis
Shock Resistance	10 G, 16 ms (IEC 60068-2-27)
Enclosure Protection	IP20
Warranty	2 Years from Shipment
Manufacturer Location	ABB Inc., Switzerland

For more information or to order ABB Bailey PHARPS32000000 modules, please contact Wuhan Yuli Automation Technology Co., Ltd. Website: www.ayingo.com | Email: info@ayingo.com