

CONVERTER UNIT +24Vdc/-48Vdc (800W) PHB 24S800-0048/01



Features:

- ✓ +24Vdc to -48Vdc, 800W / 16.7A per module;
- ✓ Suitable for 3UH sub-racks;
- ✓ Hot-swap connection;
- ✓ Up to five modules per 19"shelf;
- ✓ Paralleling with current share;
- ✓ Forced cooling.

The 24S800-0048/01 is a compact, modular DC to DC converter, suitable for telecommunication applications.

Paralleling diodes are included in order to allow redundancy operation. A fully equipped 19"/3U shelf is able include up to five modules (4kW). Requirements over 4kW also can be achieved by paralleling sub-racks.

ELECTRICAL SPECIFICATION

Input Voltage	+21Vdc to +30Vdc
Input Current	42A @ +24Vdc or 48A @ +21Vdc
Output Voltage	-48Vdc (could be adjusted from -44Vdc to -52Vdc in factory)
Output Current	16.7A
Maximum Output Power	800W per module
Efficiency (typical value)	> 82% @ full load and +24Vdc input voltage
Static Output Voltage Regulation	< ±1% (5% to 100% load & line) and < ±2% (0% to 5% load & line)
Dynamic Output Voltage Regulation	< ±2% for 50% step load from 10% to 100% (recovery < 5ms)
Input Noise	< 200mVpp (typical value of 100mVpp)
Output Noise	< 200mVpp to 100MHz (typical value of 50mVpp) < 48mVrms to 10MHz (typical value of 5mVrms) < 2mVpsophometric or -51.8dBm (voice band)
Insulation	> 20MΩ @ 500Vdc (Input to Output & Input to Body)
Withstanding Voltage	1414Vdc (Input to Output & Input to Body)

MECHANICAL SPECIFICATION

Connections	Male Connector DIN41612 - VG95324 – H type, 15 circuits
Dimensions	Height: 133mm, Width: 81mm, Depth: 290mm
Weight	1.8Kg

GENERAL FEATURES

LED Indicators	Green LED (ON) / Red LED (POWER FAIL) / Red LED (FAN FAIL)
Test Points	Output Voltage
Remote Alarm	Normally Close or Normally Open (configurable) and Common relay contacts (1A @ 30Vdc)
Protection	Input fuse Output paralleling diode Short circuit and overload Input under and over voltage Output over voltage (-60Vdc) Input inversion polarity Over temperature (~ 65°C)

STANDARDS

Emission	CISPR 22 – Class B
Immunity	IEC 61000-4-2 (level 4) Class B

ENVIRONMENT

Temperature	-25°C to 60°C
Air Humidity	0 to 95% R.H. non-condensing



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