

Power Module Datasheet



N-Connex. Networks for harsh environments.

Overview

The Power Module provides power to the Distribution Module of the N-Connex system. The Power Module connects to a single phase 110-240 VAC source and supplies an output load of 48 VDC at approximately 5 Amps.

Adding the optional (recommended) Battery Module will provide the Power Module with an Uninterruptable Power Supply (UPS) function. The Power Module will also provide a dedicated connection for the Battery Module.

As with all N-Connex modules it is fit-for-purpose and is designed for harsh environments. The module can be mounted on the NLT proprietary quick-fit rail or be mounted as a standalone device.

Key Features

- Selectable AC Input Voltage 110 / 240 VAC, 47 ÷ 63 Hz
- Total Power Output of 200W at 25°C
- Status indicator Green LED for AC power ON
- Status indicator Green LED when connected to Battery Module
- Status indicator Blue LED for Battery Power ON
- Consistent styling with N-Connex Modules
- IP67 protected enclosure
- UPS Functionality (with optional Battery Module)
- Up to 8 hours backup with the optional Battery Module depending on load
- Standalone or quick-fit rail mounting

Note: Technical specifications are subject to change without notice.

Specifications

Input Data

Nominal Input Voltage (selectable)	115 / 230 – 277 VAC
Voltage Range	90 – 135, 180 – 305 VAC
Inrush Current (Vn – In nom. Load) I2t	≤ 16 A, ≤ 5 msec
Input Current (115 – 230 Vac)	3.3 – 2.2 A
Frequency	47-63 Hz

Output Data

Output Voltage (Vn) / Nominal Current (In)	48 VDC/ 5A
Efficiency (at 50% of rated current)	≥ 83%
Turn-On delay after applying mains voltage	1.5 sec. (max)
Start up with Strong Load (capacitive load)	Yes, Unlimited
Short-circuit, Overload & Thermal Protection	Yes

Battery Output

Boost charge (25 °C) (at In)	57.6 VDC
Max. time Bust Charge	15 h
Reverse battery protection	Yes
Detection of element in short circuit	Yes
Physical Parameters Unit Dimensions	270mm(L) x 257mm (H) x 197mm (D)
Unit Weight	6.2 kg
Enclosure Protection Class	IP67
Operating Temperature	-20°C to 40°C
Ambient Humidity	5% to 95% RH (non-condensing)

Matrix is the authorized sales and service distributor of NLT N-Connex in the United States and Africa.

www.matrixteam.com