Intergy Network Energy Source

The Intergy Network Energy Source (NES) gives you the security of a DC standby power system for your data network devices.

The NES is a modular switch mode power supply designed specifically for data network applications. The totally integrated battery and rectifier system is supplied ready to go with plug-in and walk-away modules for easy installation. The web-enabled interface allows the system to be monitored over a LAN and there is an email alert notification system.

The N+1 redundant rectifier design, together with up to 16 battery packs provides total system integrity. The system is environmentally safe and perfectly suited for installation with network communications equipment.

The built-in intelligence of the NES provides full system diagnostics including battery charge indicators to show the state of health of the battery packs. The patented smart battery monitoring system shows vital battery system data including accurate battery capacity measurement and reserve time remaining. All in real-time.

The NES provides the highest level of standby power security available. It gives your data network the reliability it deserves and your customers expect.

Typical Applications

▶ 48V battery backed DC standby power for IT networks

▶ Secure power solution for Voice over IP (VoIP), digital PBX and other data network devices

▶ 48V DC Power-over-Ethernet (PoE) devices compliant with IEEE 802.3af

POWERWARE®

Intergy Network Energy Source

▶ Brief Technical Specifications

AC Supply	R748 Rectifiers: 110V, 50/60Hz nominal R1248 Rectifiers: 220/240V, 50/60Hz nominal
Power Factor	>0.99 (50 – 100% Output Current)
Efficiency	>90% (50 – 100% Output Current)
DC Output Voltage	54V: nominal float Suits equipment with operating range of 40 - 60V
Maximum Load Power	R748 rectifier: 2040W (3 + 1 redundancy) R1248 rectifier: 4640W (4 + 1 redundancy)
Operating Temperature Range	0°C to 40°C [+32°F to +104°F (Operation outside this range will reduce battery life)
Dimensions H, W, D	INES115/125: 6U, 19", 480mm INES215/225: 8U,19", 480mm INES315/325: 10U, 19", 480mm INES-EBC: 2U, 19", 480mm
Weight	INES115/125: 53kg [117lb]* INES215/225: 92kg [202lb]* INES315/325: 131kg [288lb]* *including battery tray and rectifier modules Additional Battery Tray (INES-BT): 32kg [70lb]
Supervisory Module	NSM35 Series Supervisory Module (Refer to separate NSM35 product data sheet for details)
Communications	Web based interface Email Alert system (6 configurable addresses) Ethernet (RJ45 socket) RS232 Serial (D9 socket) Null Modem cable supplied Voltage free relay alarm outputs (4, screw terminals)
DC Distribution	Outlets: 9 x 10 A Molex Single Row Sabre sockets Fuses: 15 A Fast Blow with individual fuse alarm (Red LED)
Software	DCTools for configuration and monitoring

▶ Options

Supervisory Module User Interface	LCD display and 4-button keypad (Refer to separate NSM35 product data sheet for details)
Battery Tray (INES-BT)	48V, 16Ah (C10 rate) VRLA battery and slide-in tray
Extension Battery Chassis (INES-EBC)	Battery tray extension frame, hold one INES-BT
Blank Battery Tray (INES-BBT)	To cover unused battery tray openings (Required for operator safety and to optimize system cooling)
Rectifier Blank Panel	To cover unused rectifier module openings (Required for operator safety and to optimize system cooling)

▶ Certifications

All products comply with International Standards. Contact your local Intergy representative for details on the specific product versions available with these safety and EMC approvals:

Region	Certification
North America	UL, FCC Verification
Canada	IE
Europe	CE
New Zealand / Australia	C-tick

In the interests of continual product improvement all specifications are subject to change without notice.

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