harmer & simmons

MPi160HD

16kW DC Power System

eco px

Use our energy
to save yours

Key Features:

- Modular design, simple to install and operate
- Front/top access for ease of installation and maintenance
- Compact, core power module contains 'essential' functions – controller, LVDs, shunt, 4 x rectifier slots
- Scalable design, factory configured for popular 300A applications
- Up to three low voltage disconnects (LVDs) configurable for batteries and/or load
- Constant power rectifiers to reduce battery recharge time
- Optional hinged doors, blank panels or panels with cutouts for the breakers.
- Additional flexible distribution modules (FDM) provide any mix of AC, DC distribution and protection
- System configuration held in non-volatile memory within the core module
- Remote monitoring options via modem or LAN (TCP/IP gateway, SNMP, email, Web,...)
- Comprehensive system control functions
- Comprehensive Battery management
- Energy saving functionality with ECO^{PX}

>> MPi160HD

Description:

The MPi160HD is a flexible, compact design aimed at the medium to large power applications.

Flexibility is achieved using the standard core module and rectifier shelves together with flexible AC and DC distribution modules which allow easy and quick configuration of the DC power system.

This combined with optional battery shelves can quickly make cost effective solutions for almost any application envisaged.

Alternatively the system can be enclosed into a 19" rack solution with battery shelves to make the ultimate design in DC power systems.

Applications:

Mobile and Fixed Line communications

Broadband and Network Access

- **Medium and Large power systems**
- **Wireless base stations**
- **Core networks**
- **Telecommunications and data networks**

SPECIFICATION

GENERAL		
Power Capability	14kW (N+1) / 16kW total	
Number of rectifiers	Up to 8	
Rectifier Power	2000W per rectifier	
Control, Supervision and Alarms	ACMi1000HD	
Communications	USB serial port Modem options SNMP/TCP-IP option	On ACMi1000HD GSM modem fitted externally PSTN modem fitted internally NSCi1000 card
Load & Battery disconnect	Up to 3 LVDs 1xLVD Standard	Disconnect/re-connect thresholds independently programmable Configurable as battery or load

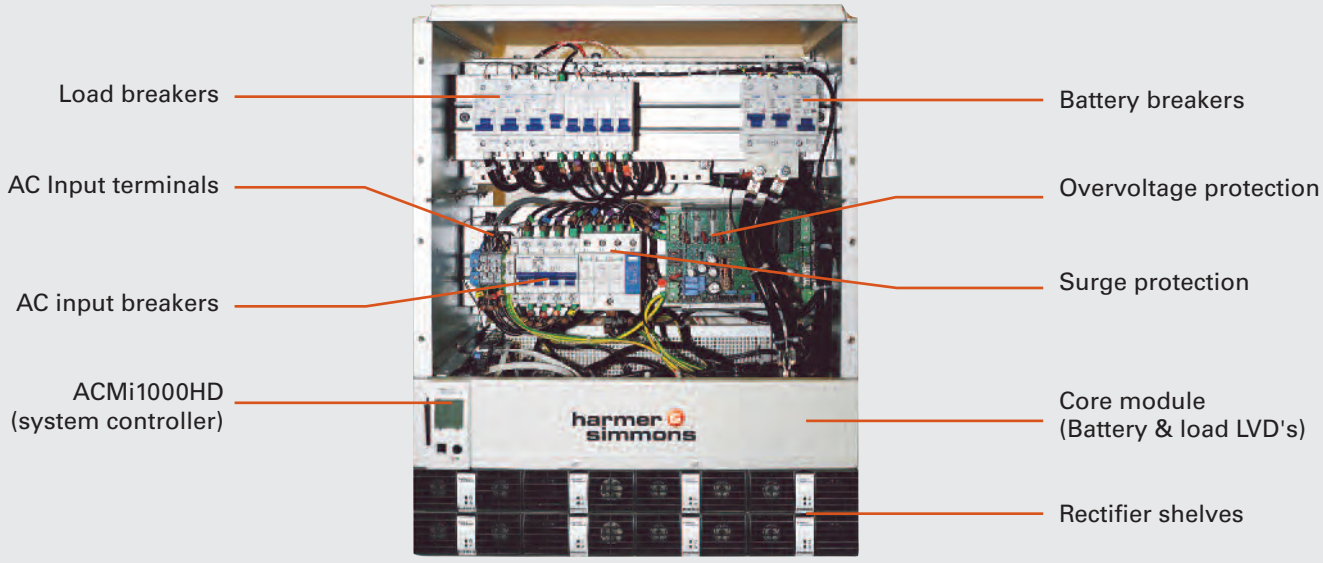
INPUT	
Input Voltage	Single phase 208/220V/240V or Three phase 380V/400V/415V N+E
Frequency	44 to 66Hz
Nominal current	9.5Arms maximum@230VAC single phase, per installed rectifier

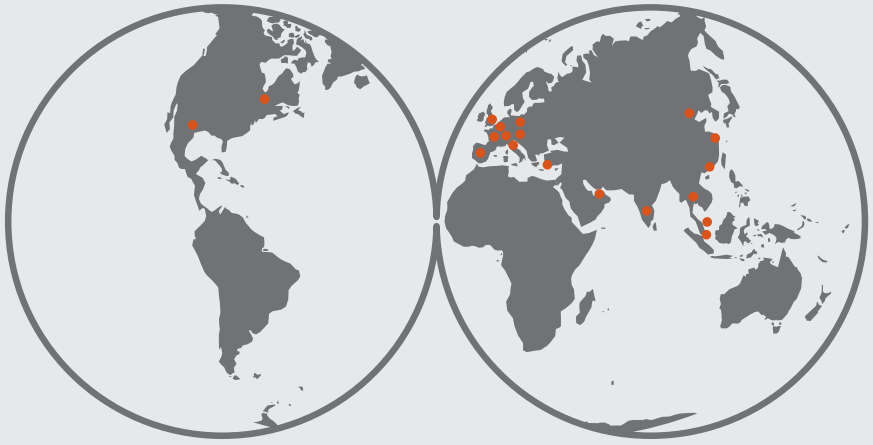
OUTPUT	
Nominal Output Voltage	48VDC Internally controlled by CAN bus Adjustment range: 42V to 57VDC
Maximum output current	Rectifier current - 332ADC at 48VDC Load current - 250ADC

ENVIRONMENTAL		
Ambient Temperature	-25°C to +70°C	
Storage Temperature	-50°C to +85°C	
Humidity	5% to 95%	Non-condensing
Vibration & Shock	IEC60068	
Seismic Shock	GR-63 Core	Zone 4
RoHS	2002/95/EC	
WEEE	2002/96/EC, 2003/108/EC	

REGULATORY STANDARDS		
Safety		
International	EN60950-1	
North America	UL/CSA 60950-1	
Safety Approvals	CE/UL/CSA	CE/UL/CSA
Electro-Magnetic Compatibility (EMC)		
Emissions, Conducted	EN55022, Class B	
Emissions, Radiated	EN55022, Class B	
Immunity		
ESD	IEC/EN61000-4-2	
Radiated 'E' field	IEC/EN61000-4-3	
Fast Transient Burst	IEC/EN61000-4-4	
Surge	IEC/EN61000-4-5	
Conducted RF	IEC/EN61000-4-6	
Radiated 'H' field	IEC/EN61000-4-8	
Power Line Dips	IEC/EN61000-4-11	
'ANSI' Surge	IEEE C62.41	
Telecom Networks	EN300 132-2, EN300 386-2	

Typical System Layout (with AC and DC modules)





Power Systems

Whenever Wherever Wattever

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Autorizovaný distribútor pre Slovensko:

Rhea elektro s.r.o.
Elektrárenská 1/12440, 831 04 Bratislava
Tel.: +421 2 49101914, -18
E-mail: info@rhea-elektro.sk
www.rhea-elektro.sk

www.harmerandsimmons.com