



Fuel Cells · Power Systems

Proton Motor
Fuel Cell Stacks and Systems

Cleantech Competence



DATA SHEET

Stationary

Three Phase Modular UPS

MII400 Series 20 – 200 kVA

MIII Series 10 – 40 kVA

Full IGBT, double-conversion
technology



MIII Series



MII400 Series



a Proton Motor Brand

Typical application areas

Secure power for datacenter & servers, Local Area Networks (LAN), telecommunication devices, emergency applications, industrial and other mission critical applications.

MII400 Series

Full IGBT, double-conversion technology

MII400 Series is configurable from 20 kVA to 200 kVA in three different cabinet types.

Power modules available:
20 kVA, hot swappable

Cabinet sizes available:

- 60 kVA suitable for 3 power modules with internal hot-swappable battery box
- 120 kVA suitable for up to 6 power modules
- 200 kVA suitable for up to 10 power modules



MIII Series

Full IGBT, double-conversion technology

MIII Series can be used either as a standalone UPS or as a 19" rack inserted UPS. It is adaptable to all power systems, as it can be set to 3/3, 3/1, 1/1 (default 3/3).

The MIII UPS combines compact size, ease of use and installation flexibility.

Power modules available:
10 kVA

Cabinet sizes available:

- 20 kVA for 2 modules of 10 kVA
- 40 kVA for 4 modules of 10 kVA



Three Phase Modular UPS

	MII400 Series	MIII Series
Main Features	<ul style="list-style-type: none"> • Double-conversion online technology • 3 phase to 3 phase • Rectifier and inverter with full IGBT technology • Control by digital signal processor (DSP) 	<ul style="list-style-type: none"> • Double-conversion online technology • Phase: 3/3, 3/1, 1/1 • Rectifier and inverter with full IGBT technology
Operation Modes	<ul style="list-style-type: none"> • Online mode • ECO mode • Battery and Bypass mode 	<ul style="list-style-type: none"> • Online mode • ECO mode • Battery and Bypass mode
Control and Protection Systems	<ul style="list-style-type: none"> • End of discharge voltage control • Automatic battery self test 	<ul style="list-style-type: none"> • Reverse polarity protection for total control of battery parameter • Instant short protection
Communication Ports	RS232, RS485, Dry contacts, SNMP card, EPO, Generator interface	RS232, RS485, Dry contactor, SNMP card (optional), EPO
Applicable Battery Types	Sealed VRLA, AGM or wet lead acid, NiCd	Sealed VRLA, AGM or wet lead acid, NiCd
Efficiency	<ul style="list-style-type: none"> • Normal mode: 96 % • ECO mode: 99 % • Battery mode 95 % 	<ul style="list-style-type: none"> • Normal mode: 95 % • ECO mode: 99 % • Battery mode 94,5 %
Output Power Factor	0.9	1
Voltage THD	<ul style="list-style-type: none"> < 1.5 % (linear load) < 5 % (nonlinear load) 	<ul style="list-style-type: none"> < 1 % (linear load) < 5.5 % (nonlinear load)
Crest Ratio	3:1	3:1
Input Power Factor	> 0.99	> 0.99
Input Current THDI	< 3 %	< 4 %
Special Benefit	<ul style="list-style-type: none"> • Parallel redundant function to maximize reliability and flexibility • 120kVA cabinet: parallel connection up to 3 cabinets (max. output power 360 kVA) • 200kVA cabinet: parallel connection up to 2 cabinets (max. output power 400kVA) • Easy maintenance and access due to modular design • Build-in maintenance bypass • Centralized swappable bypass module • High efficiency with flat efficiency curve • Intelligent battery management • User friendly touch screen 	<ul style="list-style-type: none"> • maintenance alert for critical components • Parallel redundant function to maximize reliability and flexibility • Programmable dry contact for easier integration in local monitoring system • Suitable for harsh environments thanks to total tropicalized cards. • Intelligent Hibernate • Manual bypass and bypass breaker • Motor mode for motor type load • 7" full colored touch screen

Errors excepted, technical changes reserved. Product specifications are subject to change without further notification

For further information, please do not hesitate to contact us.

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Stationary

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