



# Mxx AC and DC Modular Platform

- > N+1 redundancy
- > Hot plug-in modules
- > Scalable and flexible



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# Key features and application areas

## N+1 redundancy

One (N+1) or more (N+X) redundant module can be added to the system ensuring a continuous operation for the connected load. In the event of a module failure, the load remains secure meanwhile the operator swap the new module to reestablish redundancy during operation. N+1 or N+X redundancy is available for rectifier and inverter modules.

## Hot plug -In

Rectifier and Inverter modules can be added or replaced quickly and easily without shutting the complete system. Therefore the ability to add or remove the modules without powering down the system leads to a low Mean Time to Repair (MTTR)

## Scalability and flexibility

The Mxx platform can be easily scaled to accommodate for future changes in load requirements. If more power is needed or additional consumers are added to the system, new modules can be simply plugged into empty slots to meet the new needs. This allows the performance of the system to grow in line with the requirements of the user, thereby reducing the initial investment. Different types of modules (i.e. rectifiers, inverters, switches) can also be combined and added to a system, making the Mxx platform highly flexible and able to meet changing requirements.

## Monitoring , remote supervision and diagnostic

Mxx communication interfaces such as SNMP, Modbus TCP/IP, Modbus RTU and Profibus are available to control and monitor the system allowing the operator to react with an appropriate time stamp.

The system can be locally configured or monitored by using the front panel display with LED alarms and Alphanumeric display or remotely with GUTOR's multimangement tool.



Oil&Gas



Energy & Power-  
Generation



Mining



Water Treatment  
& Desalination



Transport



Chemical Industry



Industrial Process  
Control



All Industrial  
Applications

# Key features modular system

„Engineered for low rating applications“



## MDC Rectifier

### Engine

- Input AC Network : 1ph (L, PE, N)
- > Input voltage : 1 x 230VAC
  - > Input frequency : 50 / 60Hz
  - > Input AC Network : 3ph
  - > Input voltage : 1 x 230/400VAC
  - > Input frequency : 50 / 60Hz
  - > Output DC
  - > Output voltage : 24/48/110/125/220
  - > Output power : From 600W up to 10KW

### Features

- > PFC rectifier (Input PF > 0.99, THDi < 5%)
- > Input over voltage protection
- > High power density
- > Backfeed protection through integrated decoupling from the DC bus
- > Optimal, temperature controlled cooling
- > Compact 19" design
- > Galvanically isolated

## MXP AC UPS

### Engine

- Input 1ph – Output 1ph
- > Input /Output voltage : 1 x 230VAC
  - > Input / Output frequency : 50 / 60Hz
  - > Input 3ph – Ouput 1ph
  - > Input voltage : 3 x 230/400VAC,
  - > Ouput voltage : 1 x 230 VAC
  - > Input / Output frequency : 50 / 60Hz
  - > DC
  - > Output voltage : 48/110/125/220
  - > Output power : From 1 up to 5 KVA

### Features

- > PFC rectifier (Input PF > 0.99, THDi < 5%)
- > Redundant synchronization bus for increased reliability
- > Input over voltage protection
- > High power density
- > Excellent sinusoidal output
- > Optimal, temperature controlled cooling concept
- > Compact 19" design
- > I/O galvanically isolated

## MXW Inverter

### Engine

- Input DC
- > Input voltage : 48/110/125/220 VDC
  - > Output AC Network, 1ph
  - > Output voltage : 1 x 230VAC
  - > Output frequency : 50 / 60Hz
  - > Output power: From 1 up to 5 KVA

### Features

- > Excellent overall efficiency
- > Redundant synchronization bus for increased reliability
- > Resistant to sustained short circuit
- > High power density
- > Excellent sinusoidal output
- > Optimal, temperature controlled cooling concept
- > Compact 19" design
- > Galvanically isolated

# Technical information

## MDC Rectifier

	24V	48V	110V	125V	220V
<b>Input</b>					
Voltage *	230V <sub>AC</sub>				
Allowable tolerance	+/- 20 %				
Current (per module)	5.8A <sub>AC</sub>	12.9A <sub>AC</sub>			
Power factor	>0.99 @ output power >50 %				
<b>Output</b>					
Voltage	24V <sub>DC</sub>	48V <sub>DC</sub>	110V <sub>DC</sub>	125V <sub>DC</sub>	220V <sub>DC</sub>
Voltage range	21–33V <sub>DC</sub>	42–62V <sub>DC</sub>	87–150V <sub>DC</sub>	87–150V <sub>DC</sub>	170–295V <sub>DC</sub>
Current (per module)	50.0A <sub>DC</sub>	56.0A <sub>DC</sub>	25.0A <sub>DC</sub>	22.0A <sub>DC</sub>	12.5A <sub>DC</sub>
Efficiency	>91 %				

## MXP UPS

	48V	110V	125V	220V
<b>Input</b>				
Voltage *	230V <sub>AC</sub>			
Allowable tolerance	+/- 20 %			
Current (per module)	12.9A <sub>AC</sub>			
Power factor	>0.99 @ output power >50 %			
<b>Battery circuit</b>				
Voltage	48V <sub>DC</sub>	110V <sub>DC</sub>	125V <sub>DC</sub>	220V <sub>DC</sub>
Voltage range	42–62V <sub>DC</sub>	87–150V <sub>DC</sub>	87–150V <sub>DC</sub>	170–295V <sub>DC</sub>
Current (per module)	56.0A <sub>DC</sub>	25.0A <sub>DC</sub>	22.0A <sub>DC</sub>	12.5A <sub>DC</sub>
<b>Output</b>				
Voltage *	230V <sub>AC</sub>			
Tolerance	+/- 0.5 %			
Adjustable range	200–242V <sub>DC</sub>			
Current (per module)	9.8A <sub>AC</sub> @ cosφ 0.8			
Efficiency	>85 %			

## MXW Inverter

	48V	110V	125V	220V
<b>Input</b>				
Voltage	40.8–67.5V <sub>DC</sub>	91.8–145V <sub>DC</sub>	91.8–145V <sub>DC</sub>	183.6–270V <sub>DC</sub>
Current (per module)	41.6A <sub>DC</sub> @ 48V <sub>DC</sub>	18.4A <sub>DC</sub> @ 108V <sub>DC</sub>	15.9A <sub>DC</sub> @ 125V <sub>DC</sub>	9.2A <sub>DC</sub> @ 216V <sub>DC</sub>
<b>Output</b>				
Voltage *	230V <sub>AC</sub>			
Voltage range	+/- 0.5 %			
Adjustable range	200–242V <sub>DC</sub>			
Current (per module)	9.8A <sub>AC</sub> @ cosφ 0.8			
Efficiency	>90 %			

\*Applicable for 50Hz and 60 Hz/1-phase and 3-phase + N

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