

# MAXIMA MODULAR 25-200 kVA

## MODULAR 3-PHASE ON-LINE UPS

### DESCRIPTION

The Sollatek Maxima Modular 25-200kVA applies complete modularization with easy plug/play designs, system rack, UPS, communication, display modules optional power distribution panels, smart cards and more. It allows for complete adherence to a customer's requirement. Each UPS module has a completely functional 25kVA UPS, advanced wireless parallel control technology and smart communication protocols, allowing the UPS communication and display module to be realized via online maintenance that will not affect its daily operations. New modules can also be added to the system without the need for calibration. Maintenance and expansion can be easily achieved.

### APPLICATIONS

- Data Center
- Telecommunications
- Financial Services
- Security and Surveillance System
- Automatic Control System
- Building Management
- Manufacturing Process Control
- Petro Chemical Industry

### FEATURES

- Output power factor 1.0
- Double conversion on-line technology
- Three-level bridge IGBT PWM control
- 99% efficiency in ECO mode, 96% efficiency in inverter mode
- 25~200kVA per frame
- Parallel up to 4 frames and 800kVA
- Intelligent battery management
- Adjustable battery quantity
- High flexibility and expandability



\*Actual unit may differ from shown

## TECHNICAL SPECIFICATION

MAXIMA MODULAR MODELS		25 kVA	50 kVA	75 kVA	100 kVA	125 kVA	150 kVA	175 kVA	200 kVA
Capacity	Power rating kVA	25	50	75	100	125	150	175	200
<b>INPUT</b>									
Input wiring		3ph + N + PE							
Rated input voltage		220/380, 230/400, 240/415 VAC							
Rated input frequency		50 or 60 Hz, user configurable							
Frequency tolerance		40 to 72 Hz							
Input power factor at 100% load		0.99							
Input THD		<3%							
Soft start capability		Yes							
<b>OUTPUT</b>									
Output wiring		3ph + N + PE							
Rated output voltage		220/380, 230/400, 240/415 VAC							
Output frequency		50/60 Hz							
Output THD		<1.5% (100% linear load); <3% (100% non-linear load)							
Permitted load power factor		0.8 lagging to 0.8 leading							
Overload on inverter		10 min 125%, 60 sec 150%, 300 ms > 150%							
Overload on battery		10 min 125%, 60 sec 150%, 300 ms > 150%							
Overload on bypass		Continuous < 115%, 10 ms 1000%							
<b>GENERAL</b>									
UPS output power rating		25-200 kVA, 1.0pf							
Efficiency in double conversion mode		>96%							
Efficiency in Energy Saver System		>99%							
Topology		Double conversion on-line technology, three-level bridge IGBT PWM control							
External paralleling		up to 4 units with Hot paralleling technology							
Noise @1m, 25°C		< 65 dBA in double conversion							
UPS topology		Double conversion							
Degree of protection		IP20							
Altitude (max)		1000m above sea level at 40°C							
<b>BATTERY</b>									
Battery Technology		12 V battery block (VRLA)							
Battery nominal voltage		36 blocks (432V / 216 Cells) ~ 44 blocks (528V / 264 Cells), default 40 blocks (480V / 240 Cells)							
Battery cut off voltage		1.67 VPC to 1.75 VPC Configurable or automatic (load adaptive)							
Restored energy time to 90%		Maximum 10 hours recommended (dependant on battery size)							
Charging current (at full load)		Default 5A configurable, maximum 25A per UPM							
Battery recharge profile		OBM (Optimize Battery Management) or float							

**SOLLATEK (UK) LIMITED**  
 Sollatek House, Waterside  
 Drive, Langley, Slough SL3 6EZ,  
 United Kingdom  
 Tel: +44 (1753) 214 500  
 Email: sales@sollatek.com  
 Web: www.sollatek.com

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## TECHNICAL SPECIFICATION (CONT.)

MAXIMA MODULAR MODELS		25 kVA	50 kVA	75 kVA	100 kVA	125 kVA	150 kVA	175 kVA	200 kVA
Capacity	Power rating kVA	25	50	75	100	125	150	175	200
<b>COMMUNICATIONS</b>									
Minislot	3 communication bays								
Serial ports	Built-in host and device USB								
Standard connectivity ports	5 building alarm inputs and a dedicated EPO								
Software	Santak WinPower								
BMS connectivity	BMS compliant with floating contacts for Compact or Modular DDC Controllers. Fully BMS compliant giving the end-user the ability to monitor working status on any electrical control room and panel.								
<b>COMPLIANCE WITH STANDARDS</b>									
Safety	IEC 62040-1								
EMC	IEC 62040-2								
Performance	IEC 62040-3								
RoHS	EU directive 2011/65/EU								
<b>ACCESSORIES</b>									
<ul style="list-style-type: none"> <li>• MiniSlot connectivity (Web/SNMP, ModBus/Jbus, Relay)</li> <li>• External Battery Cabinet (EBC)</li> <li>• Parallel Tie Cabinet (PTC)</li> <li>• External Maintenance Bypass Switches (EMBS)</li> <li>• External Battery Cabinet Breaker (EBCB)</li> </ul>									

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