



Trigger True Online double conversion **ModuGuard 10/15 Series** UPS is equipped to provide clean and quality backup power supply to the equipment supported. **ModuGuard 10 Series** is rated at 10kVA to 60kVA whereas **ModuGuard 15 Series** is rated at 15kVA to 90kVA.

The Modular design suits most installation in offices, banks, Data Centre, to continuously provide power protection to enterprise servers, networking equipment, telecommunication systems, security system, and many other critical applications.

ModuGuard 10/15 Series UPS has the flexibility to configure to 3/3, 3/1 and 1/1 for its input and output voltages without derating. By adopting the latest 3-level IGBT and DSP control technology, it makes ModuGuard an excellent choice for Data Centre with the ease of future capacity expansion. The 10/15KVA Power Module (2U height) mounted in cabinet compatible with 19" standard equipment rack also reduces the footprint of the entire UPS System. Modular design simplifies maintenance and replacement with low Mean Time To Repair (MTTR).



Computer/
Server



Network
Peripherals



Telecom



Security



Key Features

- Rack Modular Design
- High Power Density
- Integrated Solution for Data Center
- Intelligent Charging Management
- Flexible Configuration
- Friendly Interface
- Smart Sleep Function
- Self-aging Mode

ModuGuard 10/15 Series

10 - 90 KVA

UNINTERRUPTIBLE POWER SUPPLY





PM10X/PM15X

High Power Density

Slim 10/15KVA Power Module in 2U height save great amount of space and easy for future expansion.

Rack Modular Design

Modular design, compatible with 19" standard rack cabinet, convenient to be integrated with servers.

Integrated Solution for Data Centre

UPS can be integrated with battery cabinet, PDU and external maintenance bypass, offering excellent choice for data centre.

Intelligent Charging Management

The system intelligently control the whole process of the charging and discharging, effectively improving the life time of the battery.

Flexible Configuration

The system can be configured to 3/3, 3/1 and 1/1 without derating.



Smart Sleep Function

System can intelligently shutdown some power modules to increase total load rate, achieving higher efficiency and prolong the lifespan of the system.

Self-aging Mode

Self-aging mode for full load test with less than 10% of the total power capacity needed. Thus, saving more than 90% energy.



Friendly Interface

7 inch touchscreen colour LCD graphical display more detail information. It is easier for customer to view and operate.

Hot-swappable Battery Pack

Hot-swappable Battery Pack available (optional)
Dimension: W400xD800xH175 mm





ModuGuard 10 Series



MODEL	ModuGuard 10 Series					
Model (1/1P)	MOG1110/10	MOG1120/10	MOG1130/10	MOG1140/10	MOG1150/10	MOG1160/10
Model (3/1P)	MOG3110/10	MOG3120/10	MOG3130/10	MOG3140/10	MOG3150/10	MOG3160/10
Model (3/3P)	MOG3310/10	MOG3320/10	MOG3330/10	MOG3340/10	MOG3350/10	MOG3360/10
Power Module	PM10X (10KVA/10KW)					
UPS Cabinet	2-Slot		4-Slot		6-Slot	
CAPACITY						
Capacity (VA)	10 kVA	20 kVA	30 kVA	40 kVA	50 kVA	60 kVA
Capacity (W)	10 kW	20 kW	30 kW	40 kW	50 kW	60 kW
INPUT						
Phase	(1/1P - 3/1P - 3/3P) 3P + N + G (380/400/415V) ~ 1P + N + G (220/230/240V)					
Voltage Range	304 to 478 VAC (line-line), 100% load or 228 to 304VAC load derated from 100% - 75% linearly					
Frequency Range	40 - 70 Hz					
OUTPUT						
Nominal Voltage	3 x 380/400/415 VAC (3/3P); 220/230/240 VAC (1/1P or 3/1P)					
Voltage Range	+1.5% to -1.5%					
Frequency	50/60 Hz					
Wave Form	Pure Sinewave					
Transfer Time	0 ms					
Total Harmonics Distortion (THD)	< 1% with Linear Load; < 5.5% with Non-linear Load					
Crest Factor	3 : 1					
Overload Capacity	110% for 1 hour; 125% for 10 minutes; 150% for 1 minutes; 200ms for >150%					
BATTERY						
Type	Valve-Regulated Maintenance Free Sealed Lead Acid					
Battery Rating	Dependable on battery runtime requirement					
No. of Batteries	40 blocks					
DC Voltage	± 240 VDC					
Charging Current (max)	20% System power					
INDICATIONS						
LCD + LED	7" colour touch screen LCD + LED + Keyboard					
SYSTEM						
Efficiency	Normal mode: 95%; ECO mode: 98%; Battery mode: 94.5%					
IP Class	IP20					
ENVIRONMENT						
Operating Temperature	0° to 40°C (32° to 104°F)					
Relative Humidity	0% to 95% Non-condensing					
Noise Level at 1 meter	56dB @ < 50% load					
COMMUNICATION						
Interface (Standard)	RS232, RS485, Dry Contacts, EPO					
SNMP (Optional)	Power Management from SNMP Manager and Web Browser					
PHYSICAL						
Power Module Dim (W x D x H) mm	590 x 436 x 85 (2U)					
Power Module Weight (kg)	15.3					
2-Slot Cabinet Dim (W x D x H) mm	697 x 485 x 398 (7U)					
2-Slot Cabinet Weight (kg)	42.0					
4-Slot Cabinet Dim (W x D x H) mm	697 x 485 x 575 (11U)					
4-Slot Cabinet Weight (kg)	51.0					
6-Slot Cabinet Dim (W x D x H) mm	751 x 485 x 1033					
6-Slot Cabinet Weight (kg)	70.0					
Battery Cabinet Dim (W x D x H) mm	1000 x 600 x 1600					
Battery Cabinet Weight (kg)	120.0					
CERTIFICATIONS						
Safety Approvals	CE					

Note: The product specification listed is subjected to change without notice.





ModuGuard 15 Series



MODEL	ModuGuard 15 Series					
Model (3/3P)	MOG3315/15	MOG3330/15	MOG3345/15	MOG3360/15	MOG3375/15	MOG3390/15
Power Module	PM15X (15KVA/15KW)					
UPS Cabinet	2-Slot			6-Slot		
CAPACITY						
Capacity (VA)	15 kVA	30 kVA	45 kVA	60 kVA	75 kVA	90 kVA
Capacity (W)	15 kW	30 kW	45 kW	60 kW	75 kW	90 kW
INPUT						
Phase	(3/3P) 3P + N + G (380/400/415V)					
Voltage Range	304 to 478 VAC (line-line),100% load or 228 to 304VAC load derated from 100% - 75% linearly					
Frequency Range	40 - 70 Hz					
OUTPUT						
Nominal Voltage	3 x 380/400/415 VAC (3/3P)					
Voltage Range	+1.5% to -1.5%					
Frequency	50/60 Hz					
Wave Form	Pure Sinewave					
Transfer Time	0 ms					
Total Harmonics Distortion (THD)	< 1% with Linear Load; < 5.5% with Non-linear Load					
Crest Factor	3 : 1					
Overload Capacity	110% for 1 hour; 125% for 10 minutes; 150% for 1 minutes; 200ms for >150%					
BATTERY						
Type	Valve-Regulated Maintenance Free Sealed Lead Acid					
Battery Rating	Dependable on battery runtime requirement					
No. of Batteries	40 blocks					
DC Voltage	± 240 VDC					
Charging Current (max)	20% System power					
INDICATIONS						
LCD + LED	7" colour touch screen LCD + LED + Keyboard					
SYSTEM						
Efficiency	Normal mode: 95%; ECO mode: 98%; Battery mode: 94.5%					
IP Class	IP20					
ENVIRONMENT						
Operating Temperature	0° to 40°C (32° to 104°F)					
Relative Humidity	0% to 95% Non-condensing					
Noise Level at 1 meter	58dB @ < 50% load					
COMMUNICATION						
Interface (Standard)	RS232, RS485, Dry Contacts, EPO					
SNMP (Optional)	Power Management from SNMP Manager and Web Browser					
PHYSICAL						
Power Module Dim (W x D x H) mm	590 x 436 x 85 (2U)					
Power Module Weight (kg)	15.3					
2-Slot Cabinet Dim (W x D x H) mm	697 x 485 x 398 (7U)					
2-Slot Cabinet Weight (kg)	42.0					
6-Slot Cabinet Dim (W x D x H) mm	751 x 485 x 1033					
6-Slot Cabinet Weight (kg)	70.0					
Battery Cabinet Dim (W x D x H) mm	1000 x 600 x 1600					
Battery Cabinet Weight (kg)	120.0					
CERTIFICATIONS						
Safety Approvals	CE					

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