TRIGGER®

Trigger True Online double conversion **ModuGuard 40/50** Series UPS is equipped to provide clean and quality backup power supply to the equipment supported. **ModuGuard 40/50** Series is rated at 40kVA to 500kVA.

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 40/50 Series UPS uses modular IGBT and SCR in Rectifier and Inverter, bringing in extremely high reliability. The Isolated Air Flow design also allows the UPS to run in dusty environments, significantly improving its stability and environment adaptability. The 40KVA/50KVA Power Module (4U 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**
- **Intelligent Charging Management**
- **Independent LCD for each Module**
- **Friendly Interface**
- **Smart Sleep Function**
- **Self-aging Mode**

ModuGuard 40/50 Series
40 - 500 KVA
UNINTERRUPTIBLE POWER SUPPLY

![TRIGGER logo]

PM40X/PM50X

High Power Density
Slim 40/50KVA Power Module in 4U height save great amount of space and easy for future expansion.

Independent LCD for each Power Module
Each Power Module has an independent LCD, gives users direct overview of status and alarms in real time.

High Scalability
The system can be configured from 40KVA to 500KVA in one single cabinet and allow to parallel up to 1500KVA capacity.

Intelligent Charging Management
The system intelligently control the whole process of the charging and discharging, effectively improving the lifetime of the battery.
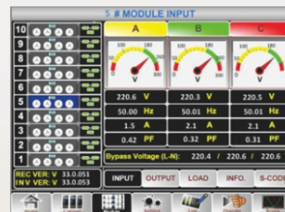
Smart Sleep Function
System can intelligently shutdown some power modules to increase total load rate, achieving higher efficiency and prolong the lifespan of the system.

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

ModuGuard 40 Series

 CE

MODEL	ModuGuard 40 Series			
Model (3/3P)	MOG3380/40	MOG33160/40	MOG33240/40	MOG33400/40
Power Module	PM40X (40KVA/40KW)			
UPS Cabinet	2-Slot	4-Slot	6-Slot	10-Slot
CAPACITY				
Capacity (VA)	80 kVA	160 kVA	240 kVA	400 kVA
Capacity (W)	80 kW	160 kW	240 kW	400 kW
INPUT				
Phase	3 Phase + Neutral + Ground. 380V/400V/415V (line-line)			
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	380/400/415 VAC			
Voltage Range	1% for balance load; 1.5% for unbalance load			
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	10.4" colour touch screen LCD + LED + Keyboard			
SYSTEM				
Efficiency	Normal mode: 95.5%; ECO mode: 99%; Battery mode: 95%			
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	72dB @ 100% load, 69dB @ 45% load			
COMMUNICATION				
Interface (Standard)	RS232, RS485, Dry Contacts, USB			
SNMP (Optional)	SNMP Manager and Web Browser, Expansion Dry Contact Card AS400			
PHYSICAL				
Power Module Dim (W x D x H) mm	510 x 700 x 178 (4U)			
Power Module Weight (kg)	44.0			
2-Slot Cabinet Dim (W x D x H) mm	600 x 980 x 1150			
2-Slot Cabinet Weight (kg)	120.0			
4-Slot Cabinet Dim (W x D x H) mm	650 x 960 x 1600			
4-Slot Cabinet Weight (kg)	170.0			
6-Slot Cabinet Dim (W x D x H) mm	650 x 1095 x 2000			
6-Slot Cabinet Weight (kg)	220.0			
10-Slot Cabinet Dim (W x D x H) mm	1300 x 1100 x 2000			
10-Slot Cabinet Weight (kg)	450.0			
CERTIFICATIONS				
Safety Approvals	CE			

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

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ModuGuard 50 Series

MODEL	ModuGuard 50 Series			
Model (3/3P)	MOG33100/50	MOG33200/50	MOG33300/50	MOG33500/50
Power Module	PM50X (50KVA/45KW)			
UPS Cabinet	2-Slot	4-Slot	6-Slot	10-Slot
CAPACITY				
Capacity (VA)	100 kVA	200 kVA	300 kVA	500 kVA
Capacity (W)	90 kW	180 kW	270 kW	450 kW
INPUT				
Phase	3 Phase + Neutral + Ground. 380V/400V/415V (line-line)			
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	380/400/415 VAC			
Voltage Range	1% for balance load; 1.5% for unbalance load			
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	10.4" colour touch screen LCD + LED + Keyboard			
SYSTEM				
Efficiency	Normal mode: 95.5%; ECO mode: 99%; Battery mode: 95%			
IP Class	IP20			
ENVIRONMENT				
Operating Temperature	0º to 40ºC (32º to 104ºF)			
Relative Humidity	0% to 95% Non-condensing			
Noise Level at 1 meter	72dB @ 100% load, 69dB @ 45% load			
COMMUNICATION				
Interface (Standard)	RS232, RS485, Dry Contacts, USB			
SNMP (Optional)	SNMP Manager and Web Browser, Expansion Dry Contact Card AS400			
PHYSICAL				
Power Module Dim (W x D x H) mm	510 x 700 x 178 (4U)			
Power Module Weight (kg)	45.0			
2-Slot Cabinet Dim (W x D x H) mm	600 x 980 x 1150			
2-Slot Cabinet Weight (kg)	120.0			
4-Slot Cabinet Dim (W x D x H) mm	650 x 960 x 1600			
4-Slot Cabinet Weight (kg)	170.0			
6-Slot Cabinet Dim (W x D x H) mm	650 x 1095 x 2000			
6-Slot Cabinet Weight (kg)	220.0			
10-Slot Cabinet Dim (W x D x H) mm	1300 x 1100 x 2000			
10-Slot Cabinet Weight (kg)	450.0			
CERTIFICATIONS				
Safety Approvals	CE			

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