PS 50 Power Server

Modular Online UPS
50~600kVA~1000kVA~6000kVA

97.1% Efficiency even at 50% load

Three Level IGBT Rectifier & Inverter Technology Ultra High Energy Efficiency

Applications:

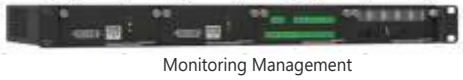
For all kind of ADP Machines

The PS50 series modular, true online double conversion UPS ranging from 50kVA to 1000kVA is designed to protect any critical load for medium and large data center achieving maximum availability. The PS50 series feature the latest technology of 3-level IGBT technology and PFC input control & Input Phase Sequence Correction, which guarantees ultra high efficiency of 97.1% and reliability. Its compact design ensures power density of 1000kVA in one cabinet, 6 units can be paralleled for capacity extension or redundancy up to 6000kVA, making it an excellent choice for medium and large data centre.

Features:

- **Compact Design**
  600kVA in one cabinet, footprint less than 1.02m², saving valuable space
- **High Power Density**
  50KVA Hot Swappable power module in 3U height, easy for capacity expansion with full capacity
- **Ultra Efficiency**
  Advanced 3-level technology guarantees high efficiency operating in double conversion mode 97.1%
- **Intelligent Battery Management**
  The system intelligently control the whole process of the charging and discharging, effectively improve the life time of the battery
- **IGBT based Rectifier and Inverter**
- **High Scalability**
  The system can be configured from 50kVA to 1000kVA in one single cabinet, 6 units in parallel for a capacity extension up to 6000kVA
- **Friendly HMI**
  7 inch touch screen with graphic display With Waveframe Recording
- **Smart Sleep Function Load Management**
  System can intelligently shutdown some power modules in case of less load, save electrical energy.
- **Multi Communication Interface**
  Provide RS232, RS485, USB, SNMP, AS400 and programmable dry contacts
- **Lithium battery compatible**

7 inches touch screen, fully graphic Operation, supporting multi-language (10.4 inches touch screen optional)



Monitoring Management

Structure – 50kW module

RoHS CE ISO 9001 ISO 14001 OHSAS 18001 ISO 27001

SPECIFICATION OF RACK

MODEL		PS50R4MU36	PS50R6MU42	PS50R10MU42	PS50R16MU42	PS50R20MU42
Rating (kVA) Configurable		200	300	600	800	1000
Dimension WxDxH (mm)		600x850x1600	600x850x2000	1200x850x2000	2000x850x2000	
Weight (Kg)		230	260	650	980	1050
Bypass	Feature	Hot-Swappable Inbuilt Static Bypass Module for Max. Inbuilt Maintenance Bypass Switch				
	Voltage	Max. Voltage: ± 15% (Optional ± 5%, ± 10%, ± 25%)				
	Frequency	50 / 60 Hz Auto Sensing ± 1Hz, ± 3Hz, ± 5Hz				
	Overload	135% Overload for 1 Min ; >1000% Overload for 100 ms				
Monitoring		7 Inch. Touch Screen Display+Keyboard				
Nos. of Module		50kVA x 04	50kVA x 06	50kVA x 12	50kVA x 16	50kVA x 20

SPECIFICATION OF MODULE

MODULE 50kVA	PS50M3350
Dimension WxDxH (mm)	440x620x130 (3U)
Weight (Kg) Each 50kVA	34 Kg
INPUT	
Nominal Voltage	380V / 400V / 415V AC (3Ph+N+PE)
Operating Voltage Range	228V ~ 480V AC Load Dependent
Operating Frequency Range	40Hz ~ 70Hz Auto Sensing
Power Factor	≥ 0.99
Harmonic Distortion (THDi)	≤ 3%
Generator Input / Walking	Support / 0~40 Sec. (Configurable)
OUTPUT	
Output Voltage	380V / 400V / 415V AC (3Ph+N+PE)
Voltage Regulation	± 1%
Power Factor	1.0 (Unity)
Frequency	Auto Sensing 50 / 60 Hz ± 3Hz Sync Mode (Configurable), 50/60 Hz ± 0.1 Hz Battery Mode
Crest Factor	3:1
Harmonic Distortion (THDv)	≤ 1%
Over Load	≤ 125% for 10 min, ≤ 150% for 1 min, > 150% for 200 ms
Efficiency	97.1% Dual Conversion Mode, 99.0% ECO Mode
BATTERY	
Battery Voltage	± 240V DC Nominal (30 ~ 50 Nos. Configurable)
SYSTEM FEATURE	
Self-Diagnostics	During Power ON and Software Control
EPO	UPS Shut down
Transfer Time	Zero
Alarm / Protections	Short Circuit, Input Under/Over Voltage, Over Temperature, Over Load, DC BUS Under / Over Voltage and Battery low
Display	Touch Screen LCD & LED Indication
ENVIRONMENTAL	
Temperature	Operating: 0~50°C*, Storage: -15°C ~ 70°C
Humidity / Altitude	0~95% RH Non-condensing / <1500 M (Above sea level) without de-rating, Derating 1% for each additional 100m.
Noise	<65dBA
STANDARDS	
Quality	ISO 9001, ISO 14001, ISO 27001, ISO 50001, RoHS, UL
Safety	IEC/EN62040-1
EMC / Performance	Complying to CE, IEC/EN62040-2; IEC/EN62040-3
COMMUNICATION INTERFACE	
Standard	Rack: RS232, RS485, Dry Contact
Optional	BMS/ Rs485/ LBS / SNMP / ModBus / Dry Contact / Parallel, Dry contact, Relay Card, Battery temperature sensor
Monitoring Software	NetAgent Utility v5.8 / Muser 4000 / Power Manager

* Conditions apply.
Specifications are subject to change without prior notice.

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