

# Technical Specifications

Model	MPS9335 10-300KVA
Capacity	10-300KVA
Main input	380V/400V/415VAC
Input Frequency Range	50/60HZ
Power Factor	Full load>0.99 ,Half load > 0.98
THDI	THDI<3%
Input power soft-start function	5-30s settable
Input Voltage Ranges	228V-476V;-20%~-25% at Full load; linear derating at -25%~-40%; can take 70% load at -40%
Frequency Range	40-70HZ
Battery	±240VDC(Default), 12V Battery 30~40pcs can be choose
Charge Voltage accuracy	±1%
Bypass	
Bypass Input Voltage	380/400/415VAC 3-phase 4-wire
Voltage range	Default value is -20%~+15%; -40%,-30%, -10%, +10%, +15%, other ranges can be set via software
Overload Capacity Output	Long term at 135% rated load ,150%<load<180% more than 10 min,load>1000% 100ms
Inverter Output Voltage	380/400/415VAC 3-phase 4-wire
Voltage Accuracy	±0.5% (balanced load), ±1% (unbalanced load)
THDV	THDV<1% (linear load), THDV<3% (nonlinear load)
Power Factor	1.0
Three Phase Angle accuracy	120° ± 0.5°
Current Crest Ratio	3:1
Overload Capacity	1.10%1h, 1.25%10mins, 150%1mins, >150%200ms
Transfer Time	2ms
System	
Frequency	50Hz/60Hz (settable)
Mains synchronization range	±2Hz(Default value), adjustable with step of 0.5Hz within range of +/- 0.5Hz - 3Hz
Protection Level	IP20
Communication Ports	RS232,RS485,dry contact,SNMP card, EPO, generator port
System efficiency	>96% at load above 50%, > 95% at load above 25%
Operation Temperature	0-40°C
Storage Temperature	-25°C~70°C (without battery)
Humidity	0-95% (no-condensing)
Noise (dB)	55-62dB, Adjusted with load
Weight	module:PM10 10KVA power module : 20KG module:PM20 20KVA power module : 35KG module:PM30 30KVA power module :35KG 3 module cabinet 600X900X1135 5 module cabinet (5 battery cabinet option) 600X1100X2070 6 module cabinet 600X900X1535 10 module cabinet 900X900X2080 power module 440X650X132(3U)(10KVA/20KVA/30KVA)
Dimension (W x D x H)mm	

(Optional South America 208V must be derating use)

Specifications are subject to change without prior notice

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## Flexible Modular parallel Redundancy UPS series

**SOROTEC**  
Power Solutions Expert

## Working principle

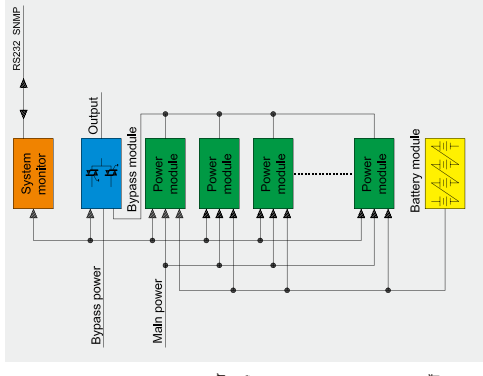
Modular UPS use double conversion on-line structure, including the rectifier, inverter, battery charger, control circuit, the input and output battery connector breaker, Have function that is input power factor compensation. All modules can be online hot-swappable, provide the highest level of availability, and maintainability.

If one power module failure will not affect the system normal working, power module can be online hot-swappable all power module parallel is managed by the control board, in accordance with the unified parameters running, one power module fault can be automatically exit parallel system, will not cause harm to the whole parallel system.

Modular UPS system use independent static bypass module, do not use multiple static bypass structure, avoid caused overload damage Modules because of multiple bypass module uneven current when UPS turn to bypass working, module parallel output voltage accuracy is  $\pm 1\%$ , parallel circulation current  $< 1\%$ . Static bypass module contains bypass static switch only, excluded static switch of the main circuit output, therefore, replacing static bypass module will not cause the system power down or transfer manual maintenance bypass, which can realize online hot-swap replacement.

## Features:

- Superior energy saving : Efficiency > 96% at 50%-75% rated load, and > 95% at 25% rated load; Input PF > 0.99, input THDi < 3%
- Easy-to-install: Top or bottom cabling, no need of input cabling cabinet.
- Easy-to-maintain: Full front access, UPS failed part can be replaced shortly
- Easy-to-modify: The number of battery cells can be configured flexibly, so the original batteries can be used when modifying the legacy system; moreover, the battery cell can be replaced in time when it fails without interrupting the normal operation of UPS.
- Extra large LCD that can display 12 language (Chinese, English, Russian, French, Spanish and so on).
- Provide large LCD touch screen (optional)
- Each UPS modules provide 4.5kW charge capacity, equivalent to 10 to 12A
- Advanced DSP full digital control technologies realize higher system stability, online capacity expansion and maintenance
- Advanced distributed active parallel technology realizes parallel operation of 4 UPS units and online capacity expansion without centralized bypass cabinet
- Adaptive to severe power grid environment due to extra wide input voltage and frequency ranges
- Intelligent battery management maintains battery automatically to prolong the battery life
- The machine system for modular structure, consists of 1 to 10 module's biggest single module is 30 kw
- UPS power module supporting hot swappable, capacity upgrade extremely simple.
- Super ability for overload and short circuit, ensure the system stability and safety under the limit state of system



### ▶ Product snapshot:

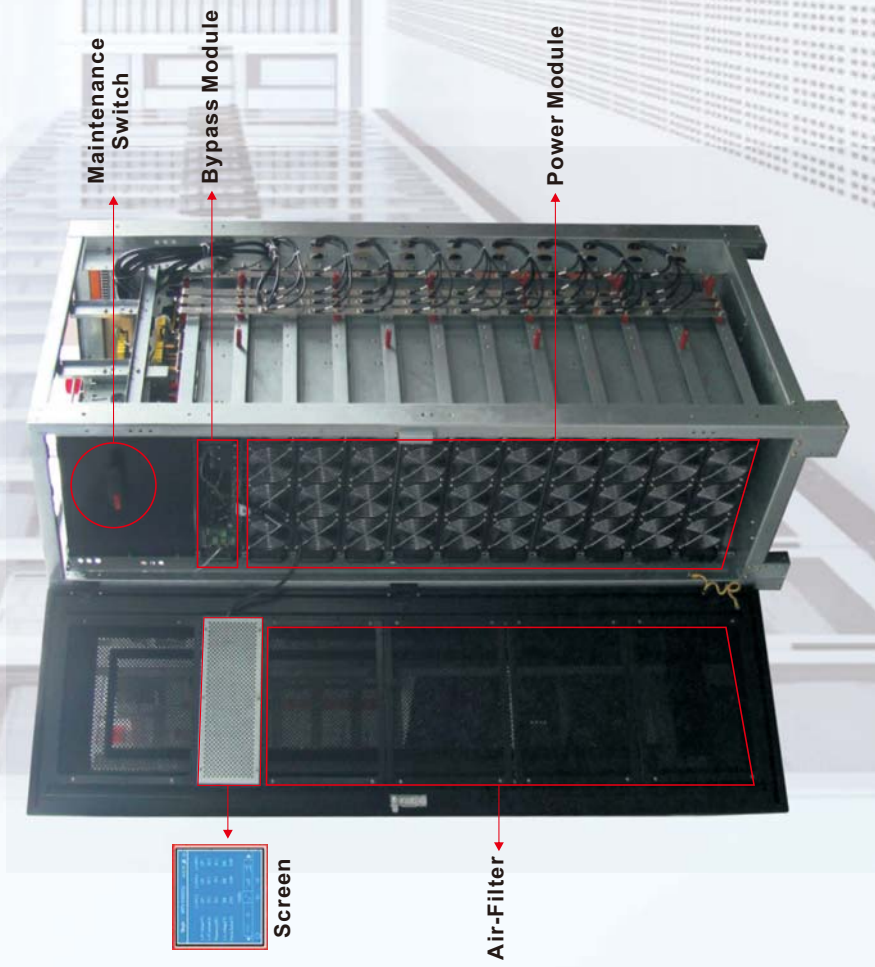
Model: 10-1200KVA
Nominal voltage: 380/400/415VAC
Nominal frequency: 50/60Hz
Output Power factor: 1

MPS9335C series is modular online UPS for sensitive equipments. The single cabinet power rating covers from 10KVA to 300KVA which delivers the best of combination of reliability, hot-swappable and flexibility. With the latest IGBT three-level technology and DSP control, MPS9335C achieves a high input power factor, low THDi. Modular design with N+X redundancy and online hot swapping, easy to expand the capacity. Full DSP control of high stability, reliability and safety integrated IGBT module with improved performance and reduced size

## Application:

Application (DC (Internet Data Center), computing center, ISP (Internet Service Provider), Telecom, Finance bank and securities, Tax, hospital system, industrial automation, precision equipment, etc.

**MPS9335 10-300KVA  
Configuration Scheme:**



**Hot-swap Battery Module:**

