

Power Solution Specialist



INVT Power System

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INVT Power System (Shenzhen) Co.,LTD

Tel: (86-755)26782480 Fax: (86-755)26782664 E-mail: upssales@invt.com.cn Http: www.invt-power.com

Add: Building A, INVT Guangming Technology Building, Songbai Road,

Matian, Guangming District, Shenzhen, China

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Stock code: 002334











About us

INVT Power, a key high-tech company, subsidiary company of INVT Group (Stock code: 002334), is the leading total power solution provider in China.

Over the past years, we have been dedicated to providing high quality products and service to global customers. So far, we have gained more than 1300 patents and our customers and partners are from more than 80 countries and areas in government, finance, internet, communication, traffic, electric and industry. With the high quality and top-class services, we are adding values to all our customers.

We aim at offering fast customized solutions to our customers and continuous innovation for more competitive products and services.

You are warmly welcome to be our distributor and partner. Meanwhile, we can provide OEM and ODM production and service for clients all around the world.



Shenzhen Industrial park



Suzhou Industrial park



Fuyong production base







How we make difference

Research and Innovation

- 12 Research centers
- 13% sales revenue for research and innovation
- IPD integrated products development system
- TUV witness Qualification LAB in Power Industry
- 1300 Intellectual Property Right, 30% more than average level













- TUV Witness Qualification LAB
- UL Witness Qualifications LAB



Safety Lab



Climate Environment Lab



Performance Test Lab



Components Test Lab



Mechanical Environment Lab



Dust-proof and Water-proof Lab



EMC Lab



Equipment Development Lab



UPS R&D Lab







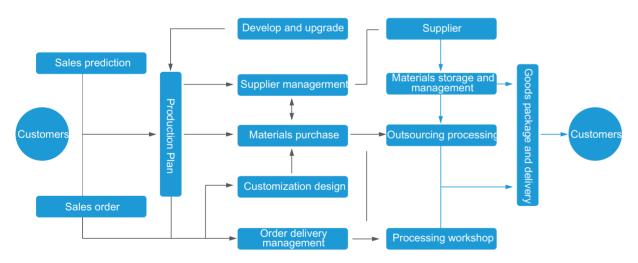




Production Management System

INVT Power ensures high quality products and fast response to our customers by applying advanced Supply Chain Management System based on Quality Control Management, Delivery Management, Service and Strategic Control System.

INVT applies Standardized Operational System. We standardize the operational process for production, ensuring effectiveness, quality and cost control.



High Efficiency Supply

INVT Power adopts the most advanced international production mode as ISCM, JIT and LEAN, ensuring high efficiency and fast supply.





Honor

A state-level Hi-tech enterprise

National outstanding energy-saving enterprise

Famous brand in Guangdong province

Top 100 independent innovation enterprise

Top 10 China customer satisfaction brand

Procurement finalists brand by central governments

























Quality Assurance

We apply comprehensive quality assurance to ensure the quality control of the whole product life circle



- R&D and production management system certificated by TUV and ISO9001:2008
- Environmental Management System: ISO14001: 2004
- Occupational Health and Safety Management OHSAS 18001:2007



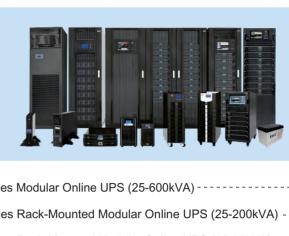








Contents



RM Series Modular Online UPS (25-600kVA)	0
RM Series Rack-Mounted Modular Online UPS (25-200kVA)	07
RM Series Rack-Mounted Modular Online UPS (10-90kVA)	09
RM Series Modular Online UPS (20-200kVA)	1
RM Series In-built Battery Modular Online UPS (20-60kVA)	13
RM Series Modular Online UPS (40-600kVA)	15
RM Series Modular Online UPS (5-20kVA)	17
RM Series Modular Online UPS (60-600kVA)	19
RM Series Modular Online UPS (100-600kVA)	21
HT33 Series Tower Online UPS (60-500kVA)	23
HT33 Series Tower Online UPS (10-40kVA)	25
HT33-TX Series Tower Online UPS (10-40kVA)	2
HR33 Series Rack Online UPS (10-40kVA)	29
HT31 Series Tower Online UPS (10-40kVA)	3
HR31 Series Tower Online UPS (15-20kVA)	33
HT11 Series Tower Online UPS (6-20kVA)	3
HT11 Series Tower Online UPS (1-3kVA)	37
HT11 Series Tower Online UPS (1-3kVA)	39
HR11 Series Rack Online UPS (1-10kVA)	4
Rack battery cabinet	43
Smart Remote Monitor	44
Smart Charging Module	4
Energy Absorbing Unit	46
24A External Charger	4
Load Bus Synchronization	4
Battery Cabinet	49
MF Series Sealed Lead Acid Battery	50





RM Series Modular Online UPS 25-600kVA (380V/400V/415V)

The RM series modular UPS provides the most compact footprint of less than 2m² with maximum capacity of 900kVA. With the best reliability and high performance, it has been leading the domestic market for years.

RM series is considered to be the best power protection solution for large data centers, as well as for sensitive electronics.





Independent LCD for Each Power Module

Each power module has an independent LCD, giving users a direct overview of status data and alarms in real time.

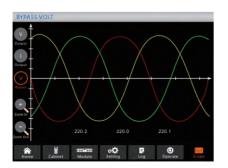




Friendly Interface

Providing graphical and text based information of alarms, status data, instructions so that users can have more friendly and safer operation.



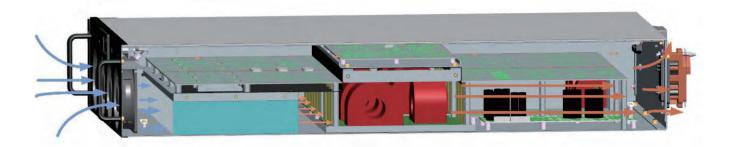




Isolated Air Flow

The dedicated and redundant hot-swappable power modules take the most unique structure design. In this design, the PCB boards and heat-sinkers are in two completely different layers, which allows the UPS run in dusty environments, significantly improving its stability and environmental adaptability.

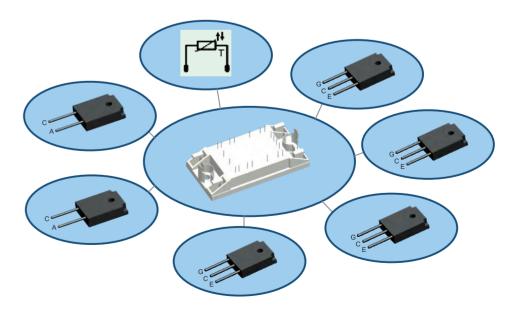
- Cooling air flows in the lower layer, keeping the upper PCB free of dust
- One air flow channel ensures fans redundancy, even one fan fails, power module can run normally



Unique Design for High Reliability

Instead of discrete IGBT and SCR components, RM series UPS uses modular IGBT and SCR in Rectifier and Inverter, bringing in extremely high reliability.

- All components in one module, less fault points, higher reliability
- All components integrated as one modular design, smaller disparity
- Less space needed, UPS with compact design and higher power design
- Integrated inner thermal sensors display IGBT inner temperature directly



0.02





High Density ,Modular, Scalable

- High power density, footprint for 300kVA is 0.66m², power density 409kW/m², saving valuable data center space
- Scalable from 30kVA to 900kVA, max 30 power modules in parallel





Three units in parallel

- Inherently N+X redundant
- Hot swappable power module and bypass & monitoring module
- Additional charging module, extra charging current 50A×N for long time back up application



Bypass & Monitoring module



Power module



Comprehensive Monitoring Management

In each power module, information of critical components is monitored and displayed in real time, giving customers a view of inner status of the system and providing reminder information for maintenance.

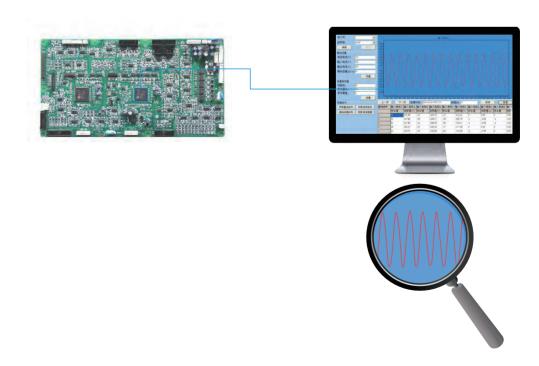
- Maintenance reminder, running time of capacitors and fans displayed and recorded
- Comprehensive temperature monitoring for thermal abnormal detection
- · Intelligent battery charger for long battery life



Critical Waveform Recording

UPS can record and save the data of the main parameters automatically when faults happen for further analysis.

- Can record data information and present as waveform for further analysis
- Can easily spot the causes of the failures, avoid future similar faults



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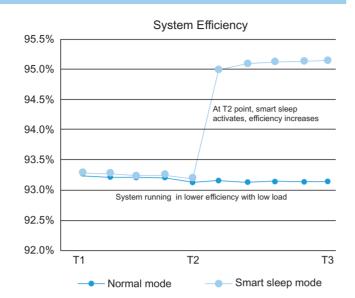




Smart Sleep

Smart Sleep function can intelligently make some power modules go to sleep when load is relatively low, improving the efficiency of the remaining power modules and saving customers on power and cooling costs.

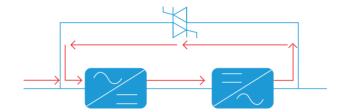
- Improving efficiency, reducing power and cooling costs
- Easy setting with just two steps. Customers can select sleep mode and rotation period
- Power modules working in rotation, prolong the life time



Self-aging

Self-aging is an advanced function applied in all three phase UPS. Self-aging function can test UPS under different load situation without real load, saving more than 90% of energy.

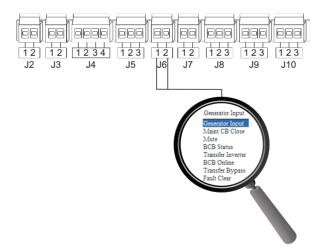
- Simulate different load conditions without connecting to any real load, saving 90% of energy
- On-site setting is supported, easy for factory testing



Programmable Dry Contacts

Programmable dry contacts are available in all RM and HT33 series UPS. Customers can easily expand or modify the definition of each port.

- Abundant options with three inputs and four outputs, all programmable
- Easy setting, just pull the drop-down menu and set
- Compatible with all the RM and HT33



Specification

MODEL			RM600/30X	RM300/30X	RM180/30X	RM500/25X	RM250/25X	RM150/25X		
System (Capacity		600kVA	300kVA	180kVA	500kVA	250kVA	150kVA		
Power M	lodule Capaci	ity		30kVA/30kW 25kVA/25kW						
	Dual Input		Optional							
	Phase		3 Phase+Neutral+Ground, 380V/400V/415V (line-line)							
Input	Input Voltag	ge Range	304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min. phase voltage							
mpat	Rate Freque	ency	50/60Hz							
	Input Frequ	ency Range	40Hz ~ 70Hz							
	Input PF		>0.99							
	Input THDi				<3% (100% I	Linear load)				
	Rate Voltag	ge			380/400/415\	/ac (line-line)				
	Rate Frequ	iency			50/6	60Hz				
Bypass	Input Volta	ge Range			Settable, -4	10% ~ +25%				
	Bypass Frequency Range			;	Settable, ±1Hz	z, ±3Hz, ±5Hz				
	Bypass Ov	erload	1	10% long term	operation; 12	5% for 5 mins	; 150% for 1 m	nin		
	Rate Voltag	ge			380/400/415\	/ac (line-line)				
	Voltage Re	gulation		1% for bala	ance load; 1.5	% for unbalan	ce load			
	Rate Frequ	iency		50/60Hz						
Output	Frequency	Precision		0.1%						
Odipat	Output PF					1				
	Output THDu			<1% , I	_inear load; <	5.5%, Non-line	ear load			
	Crest Factor				3	:1				
	Inverter Ov	erload	110% f	or 1 hour; 125	% for 10 mins;	150% for 1 m	nin; >150% for	200 ms		
	Voltage					0Vdc				
	Battery Nu	mber	40pcs (Settable: even number from 32 to 44)							
Battery	Voltage Pr	ecision	±1%							
	Charge Po	wer	up to 20% * Output active power							
	Battery Co	ld Start	Standard							
		AC Mode				0%				
	Efficiency	ECO Mode				0%				
		Battery Mode				0%				
	Display			10.4" colo		LCD + LED +	- keyboard			
	IP Class			D0000 D0		20				
System	Interface		011110			nmable Dry Co				
	Option		SNMP C				pansion dry co	ntact card		
	Temperatu			Operat		Storge: -40	~70 °C			
	Relative Hu	umidity			0 ~ 95% Non-					
	Altitude		<1000m			% power derat	ing for every 1			
	Noise (1 m	Noise (1 meter)		_	00%load 45%load	72dB@100%load 65dB@45%load	_	00%load 45%load		
	Applicable :	Standards	Safety: IEC/	'EN 62040-1 E	EMC: IEC/EN	62040-2 Perf	ormance: IEC/	'EN 62040-3		
	Weight (kg)	Cabinet	660	242	178	660	242	178		
Physical	Jigin (ng)	Power module		32.3			32.3			
J 2.00.	Dimension	Cabinet	2000*1050*2000	600*1100*2000	600*1100*1600	2000*1050*2000	600*1100*2000	600*1100*1600		
	W*D*H(mm) Power module			460*79	90*134				





RM Series Rack-Mounted Modular Online UPS 25-200kVA (380V/400V/415V)

The RM Series Rack Mounted Modular UPS is scalable, hot-swappable, online double conversion. The power capacity is from 25 to 200kVA/kW, which is the ideal choice for modern data center. With the latest IGBT three-level and full DSP control technology, the new RM series delivers the best combination of reliability and flexibility.



Application

IDC(Internet Data Center), network servers and workstation, control system, communication system, office, PC etc

Features

High Power Density

25kVA power module in 2U height, saving a great amount of space, easy for capacity expansion

Rack Modular Design

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

Battery Cold Start

UPS can be powered on from the battery without utility

Friendly Interface

Touch LCD display with abundant information

Specification

System Capacity Power Module Capacity Dual Input Phase Input Input Rate Frequency Input Frequency Range 150kVA 25kVA/25kW Optional Optional Standard 3 Phase+Neutral+Ground, 380V/400V/415V(line-line) 304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min. phase 50/60Hz 40Hz ~ 70Hz					
Dual Input Optional Standard Phase 3 Phase+Neutral+Ground, 380V/400V/415V(line-line) 304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min. phase Rate Frequency 50/60Hz					
Phase 3 Phase+Neutral+Ground, 380V/400V/415V(line-line) 304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min. phase Rate Frequency 50/60Hz					
Input Voltage Range 304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min. phase Rate Frequency 50/60Hz					
Input Voltage Range 228V~304Vac (line-line), load decreases linearly according to the min. phase 80/60Hz					
Rate Frequency 50/60Hz	voltage				
Input Frequency Range 40Hz~70Hz					
Input PF >0.99					
Input THDi <3% (100% Linear load)					
Rate Voltage 380/400/415Vac (line-line)					
Rate Frequency 50/60Hz					
Bypass Input Voltage Range Settable, -40% ~ +25%					
Bypass Frequency Range Settable, ±1Hz, ±3Hz, ±5Hz					
Bypass Overload 110% long term operation; 125% for 5 mins; 150% for 1 min; >150% for	or 1s				
Rate Voltage 380/400/415Vac (line-line)					
Voltage Regulation ±1 (0~100% linear load)					
Rate Frequency 50/60Hz					
Output Frequency Precision 0.1%					
Output PF 1					
Output THDu <1% , Linear load; <6%, Non-linear load					
Crest Factor 3:1 Inverter Overload 110% for 1 hour: 125% for 10 mins: 150% for 1 min: >150% for 200 r					
,,,,,,	ns				
10 (0 W.H.					
	±1%				
	up to 20% * Output active power				
Zutterly Cold Citari					
AC Mode 96.0% Efficiency ECO Mode 98.0%					
Battery Mode 95.5%					
Display 7.0" color touch screen LCD + LED + keyboard					
IP Class					
Interface RS232, RS485, Programmable Dry Contact					
System Option PDU for RM150/25C, SNMP Card, Parallel kit, SPD, LBS					
Temperature Operation: 0 ~ 40 °C Storge: -40 ~ 70 °C					
Relative Humidity 0 ~ 95% Non-condensing					
Altitude <1000m. Within 1000m to 2000m, 1% power derating for every 100m	rise				
Noise (1 meter) 65dB @ 100% load, 62dB @ 45% load					
Applicable Standards Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 6	2040-3				
Cabinet 140 160					
Weight (kg) Power module 18					
Physical Dimension Cabinet 482*916*931 482*916*1550					
W*D*H(mm) Power module 436*677*85					





RM Series Rack-Mounted Modular Online UPS 10-90kVA (380V/400V/415V)

The rack modular, scalable, hot-swappable, online double conversion UPS is ranging from 10 to 90kVA, with its flexible configuration of 3/3, 3/1 and 1/1, compact structure, is the ideal choice for small and medium data center.







Features

Rack modular design

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

High power density

10/15kVA power module in 2U height, saving great amount of space, easy for capacity expansion

Integrated solution for data center

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

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 based on 10kVA power module can be configured to 3/3, 3/1 and 1/1 without derating

Friendly interface

7" touch color LCD with graphic display, more information displayed and easier for customer to operate

Smart sleep function

System can intelligently shutdown some power modules to increase total load rate, achieving higher efficiency

Self-aging mode

Energy internal circle technology, system can run with full load, saving more than 90% energy

Specification

MODEL			RM060/10X	RM040/10X	RM030/10X	RM020/10X	RM090/15X	RM045/15X	RM030/15X		
System	Capacity		60kVA	40kVA	30kVA	20kVA	90kVA	45kVA	30kVA		
Power M	lodule Capac	city	10kVA/10kW 15kVA/15kW								
	Dual Input		Standard								
	Phase		3 Phase+Neutral+Ground, 380V/400V/415V(line-line)								
Input	Input Volta	ge Range	304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min. phase voltage								
прис	Rate Frequ	iency	50/60Hz								
	Input Frequ	uency Range		40Hz ~ 70Hz							
	Input PF		>0.99								
	Input THD	i			<4% (1	00% Linear	load)				
	Rate Volta	ige			380/400	0/415Vac (li	ne-line)				
	Rate Freque	uency				50/60Hz					
Bypass	Input Volta	age Range			Settal	ble, -40% ~	+25%				
· · ·	Bypass Fr	equency Range			Settable	, ±1Hz, ±3H	lz, ±5Hz				
	Bypass Ov	verload		-	ion; 130% for 150% for 300		_	m operation; 13 1 min; >150% fo			
	Rate Volta	ige			380/400	0/415Vac (li	ine-line)				
	Voltage Re	egulation		1% for	balance loa	d; 1.5% for	unbalance lo	oad			
	Rate Freque	uency		50/60Hz							
Output	Frequency Precision					0.1%					
Output	Output PF					1					
	Output THDu			<1	%, Linear loa	ad; <5.5%, N	Non-linear lo	ad			
	Crest Fact	or				3:1					
	Inverter O	verload	110% for 1 hour; 125% for 10 mins; 150% for 1 min; >150% for 200 ms								
	Voltage		±240Vdc								
	Battery No	umber	40pcs (Settable: even number from 32 to 44)								
Battery	Voltage P	recision	±1%								
	Charge Po	ower	up to 20% * Output active power								
	Battery Co	old Start	Optional								
		AC Mode				95.0%					
	Efficiency	ECO Mode				98.0%					
		Battery Mode				94.5%					
	Display		7.0" color touch screen LCD + LED + keyboard								
	IP Class		IP 20								
System	Interface		011110			_	able Dry Cor		•		
	Option		SNMP				e with batter	-	tunction		
	Temperatu			Ор			ge: -40~70	0.0			
	Relative H	umidity	0~95% Non-condensing								
		Altitude		<1000m. Within 1000m to 2000m, 1% power derating for every 100m rise							
	Noise (1 m			· · - · - · - · - · - · - · · ·		dB @ 50% l					
	Applicable)-2 Performa				
	Weight (kg) Cabinet	70	51	55	42	70	55	42		
Physical		Power module			5.3			15.5			
	Dimension		485*751*1033	485*697*575			485*751*1033	485*751*575	485*697*398		
	א ה ש(ווווו	n) Power module				436*590*85					

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RM Series Modular Online UPS 20-200kVA (380V/400V/415V)

RM series is modular online UPS for sensitive equipments. The single cabinet power rating covers from 20kVA to 200kVA. With the latest IGBT three-level and full DSP control technology, the RM series delivers the best of combination of reliability, hot-swappable and flexibility.



Features

Modular design

Up to 20 power modules in parallel online hot-swappable N+X redundancy

Independent charger

Independent charger for each module and intelligently control the whole charging process, prolong the life time of the battery

Battery cold start

UPS can be powered on from the battery without utility

Easy connection access

Top and bottom cable entry connection are supported, more convenient for site installation

Modular design with transformer

Modular UPS up to 60kVA with in-built isolation transformer, meeting different requirement for customers

High power density

200kVA with footprints of about 0.5m², saving valuable data center space

Integrated IGBT design

Integrated IGBT in one module, less failure points with higher performance and reliability

Friendly interface

Touch LCD display with abundant information

Independent air channel

Cooling air runs in isolated channel, keeping PCB free of dust



Specification

MODEL			RM200/20	RM120/20	RM060/20			
System (Capacity		200kVA	120kVA	60kVA			
Power M	lodule Capac	ity		20kVA/18kW				
	Dual Input		Optional					
	Phase		3 Phase+Neutral+Ground, 380V/400V/415V (line-line)					
Input	Input Volta	ge Range	304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min. phase voltage					
прис	Rate Frequ	iency	50/60Hz					
	Input Frequ	uency Range	40Hz ~ 70Hz					
	Input PF		>0.99					
	Input THD	i	<3% (100% Linear load)					
	Rate Volta	ge		380/400/415Vac (line-line)				
	Rate Freque	uency		50/60Hz				
Bypass	Input Volta	ige Range		Settable, -40% ~ +25%				
	Bypass Fr	equency Range		Settable, ±1Hz, ±3Hz, ±5Hz				
	Bypass Ov	/erload	125% long term operation	; 130% for 1 hour; 150% for	6 mins; 1000% for 100 ms			
	Rate Volta	ige		380/400/415Vac (line-line)				
	Voltage Re	egulation	1% for bala	ance load; 1.5% for unbalan	ce load			
	Rate Freque	-	50/60Hz					
Output	Frequency	Precision		0.1%				
·	Output PF			0.9				
	Output THDu		<1% , l	inear load; <5.5%, Non-line	ear load			
	Crest Fact			3:1				
	Inverter O	verload	110% for 1 hour; 125°	% for 10 mins; 150% for 1 m	nin; >150% for 200 ms			
	Voltage		$\pm 240 ext{Vdc}$ 40pcs (Settable: even number from 32 to 44)					
	Battery No							
Battery	Voltage P		±1%					
	Charge Po		up to 20% * Output active power					
	Battery Co		Standard					
	Efficiency	AC Mode	95.0%					
	Liliciency	ECO Mode		99.0% 95.0%				
	Dianlay	Battery Mode	5.7" to	uch screen LCD + LED + ke	whoard			
	Display IP Class		0.7 10	IP 20	yboara			
	Interface		RS232 RS	3485, Programmable Dry Co	ontact			
System	Option			Card, Parallel kit, SPD, LB				
	Temperatu	IrΩ		ion: 0 ~ 40 °C Storge: -40				
	Relative H		Орегас	0 ~ 95% Non-condensing	10 0			
	Altitude	unnaity	0 ~ 95% Non-condensing <1000m. Within 1000m to 2000m, 1% power derating for every 100m rise					
	Noise (1 m	eter)	TOOOTH. WILLIAM TOOOTH	55dB @ 50% load				
	Applicable	•	Safety: IEC/EN 62040-1	EMC: IEC/EN 62040-2 Perf	ormance: IEC/EN 62040-3			
		Cabinet	180	150	105			
	Weight (kg) Power module	100	22	100			
Physical	Dimension		600*900*2000	600*900*1600	600*900*1100			
		n) Power module	000 000 2000	440*590*134	000 000 1100			
		/ I OWEI IIIOGGIE		440 030 104				





RM Series In-built Battery Modular Online UPS 20-60kVA (380V/400V/415V)

RM060/20B series is modular online UPS with hot-swappable battery. The single cabinet power rating covers from 20kVA to 60kVA which delivers the best of combination of reliability, hot-swappable and flexibility.

With intelligent battery protection and management technology, RM060/20B realizes a compact total power solution which is easy for installation, maintenance and power expansion.



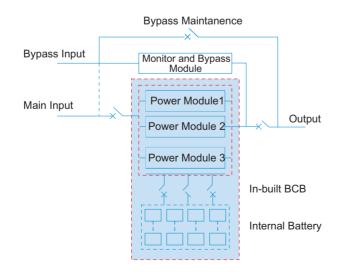
Features

- Modular design with swappable battery package
- Monitoring system for battery
- Integrated IGBT module with improved performance and reduced size
- Easy for installation and maintenance
- Easy for power expansion and backup time expansion





- Intelligent protection technology for safe and reliable hot swappable battery package of the system
- Smart charging management system, intelligently control the whole process of the charging and discharging, effectively improving the life time of the battery
- Battery cold start
- Friendly human machine interface with touch screen



Specification

MODEL			RM060/20B				
System	Capacity		60kVA				
-	lodule Capac	rity	20kVA/18kW				
1 OWOI IV	Dual Input	nty	Optional				
	Phase		3 Phase+Neutral+Ground, 380V/400V/415V(line-line)				
	Input Volta	ge Range	304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min. phase voltage				
Input	Rate Frequency		50/60Hz				
	Input Frequency Range		40Hz ~ 70Hz				
	Input PF		>0.99				
	Input THD	i	<3% (100% Linear load)				
	Rate Volta		380/400/415Vac (line-line)				
	Rate Freq	uency	50/60Hz				
Bypass		age Range	Settable, -40% ~ +25%				
	-	equency Range	Settable, ±1Hz, ±3Hz, ±5Hz				
	Bypass O	verload	125% long term operation; 130% for 1 hour; 150% for 6 mins; 1000% for 100 ms				
	Rate Volta	ige	380/400/415Vac (line-line)				
	Voltage R	egulation	1% for balance load; 1.5% for unbalance load				
	Rate Frequency		50/60Hz				
Output	Frequency Precision		0.1%				
Output	Output PF		0.9				
	Output THDu		<1% , Linear load; <5.5%, Non-linear load				
	Crest Factor		3:1				
	Inverter Overload		110% for 1 hour; 125% for 10 mins; 150% for 1 min; >150% for 200 ms				
	Voltage		$\pm 240 extsf{Vdc}$				
	Battery N	umber	40pcs (Settable: even number from 32 to 44)				
Battery	Voltage P	recision	±1%				
	Charge P	ower	up to 20% * Output active power				
	Battery C	old Start	Standard				
		AC Mode	95.0%				
	Efficiency	ECO Mode	99.0%				
		Battery Mode	95.0%				
	Display		5.7" touch screen LCD + LED + keyboard				
	IP Class		IP 20				
System	Interface		RS232, RS485, Programmable Dry Contact				
	Option		SNMP Card, Parallel kit, SPD, LBS, Dust filter				
	Temperatu		Operation: 0 ~ 40 °C Storge: -40 ~ 70 °C				
	Relative H	umidity	0 ~ 95% Non-condensing				
	Altitude		<1000m. Within 1000m to 2000m, 1% power derating for every 100m rise				
	Noise (1 m		55dB @ 50% load				
	Applicable Standards		Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3				
	Weight (kg		Cabinet: 205kg Power module: 22kg Battery package: 10kg (without battery)				
Physical	Dimension		600*1020*2000				
	W*D*H(mn	*	440*590*134				
		Battery package	120*824*177				





RM Series Modular Online UPS 40-600kVA (380V/400V/415V)

The RM series modular, online UPS ranging from 40kVA to 600kVA is designed to protect any critical load for medium and large data center achieving maximum availability. The RM series features the latest technology of 3-level technology and PFC input control, which guarantees high efficiency of 96% and ultra-reliability. Its compact design ensures power density of 600kVA in one cabinet, 3 units can be paralleled for capacity or redundancy up to 1500kVA, making it an excellent choice for medium and large facilities.







Features

Compact design 600kVA in one cabinet, footprint less than 1.45m², saving valuable room space

High power density 50kVA power module in 4U height, easy for capacity expansion

High efficiency Advanced 3-level technology guarantees high efficiency operating in double conversion mode up to 96%

Intelligent charging management
The system intelligently control the whole process
of the charging and discharging, effectively
improve the life time of the battery

High scalability

The system can be configured from 40kVA to 600kVA in one single cabinet, 3 units in parallel for a capacity up to 1500kVA

Friendly HMI

10.4" touch color LCD with graphic display, independent LCD for each power module

Smart sleep function

System can intelligently shutdown some power modules to increase total load rate, achieving higher efficiency

Multi communication interface Provide RS232, RS485, USB, SNMP, AS400 and programmable dry contacts

Specification

System Capacity	MODEL	MODEL			RM500/50X	RM400/50X	RM300/50X	RM200/50X	RM100/50X	RM240/40X	RM160/40X	RM080/40X
Dual Input	System C	Capacity		600kVA	500kVA	400kVA	300kVA	200kVA	100kVA	240kVA	160kVA	80kVA
Phase	Power Mo	odule Capacity	y		50kVA/50kW 40kVA/40kW							
Input Input Input Voltage Range 228V-304Vac (line-line),load decrease linearly according to the min. phase voltage 228V-304Vac (line-line),load decrease linearly according to the min. phase voltage Sol/60Hz Input PF		Dual Input		Standard								
Input Voltage Range		Phase		3 Phases + Neutral + Ground, 380/400/415VAC (line-line)								
Rated Frequency Range	Input	Input Voltage	e Range									
Input PF		Rated Freque	ency	50/60Hz								
Input THDi		Input Freque	ncy Range	40Hz∼70Hz								
Rate Voltage		Input PF		>0.99								
Rate Frequency		Input THDi		<3% (100% Linear Load)								
Input Voltage Range		Rate Voltage	:									
Input Frequency Range Settable, ±1Hz, ±3Hz, ±5Hz 110% Long term operation 125%, long time 125%, long term 150%, for 1 min 15		Rate Freque					50/60Hz					
Bypass Overload	_						Settab	le, -40% -	~ +25%			
Bypass Overload	Bypass						Settable	, ±1Hz, ±3	Hz, ±5Hz			
Voltage Regulation		Bypass Over	load	110%	~125% last fo	or more than 5		<130%, fo	r 10 mins	125% for 5 mins	130%, for 1	10 minutes
Rate Frequency		Rated Inverte				380/400/	415VAC (I	Line-Line)				
Frequency Precision		Voltage Regulation				1% for l	palance lo	ad; 1.5% t	for unbala	nce load		
Output PF 1 Output THDu <1% linear load; <5.5% non-linear load Crest Factor 3:1 (110% for 1 hour; 125% for 10 mins; 150% for 200 ms Battery Rate Voltage ±240VDC Battery Number 40pcs (settable: even number from 32 to 44) Voltage Precision 1% Charger Power up to 20% *Output active power Battery Cold Start Standard Optional Standard Optinal Efficiency AC Mode: 96% ECO Mode: 99% Battery Mode: 96% Display 10.4" (240-600kVA) or 7" (80-200kVA) touch screen LCD + LED+ Keyboard IP Class IP 20 Interface RS232, RS485, USB, Programmable dry contact Option SNMP, Parallel kit, SPD, Dust Filter, LBS Temperature Operation: 0 ~ 40 °C Storge: -40 ~ 70 °C		Rate Frequency										
Output Output THDu <1% linear load; <5.5% non-linear load Crest Factor 3:1 Inverter Overload 125% for 10 mins; 150% for 10 mins; 150% for 200 ms Battery Rate Voltage ±240VDC Battery Number 40pcs (settable: even number from 32 to 44) Voltage Precision 1% Charger Power up to 20% *Output active power Battery Cold Start Standard Optional Standard Optinal Efficiency AC Mode: 96% ECO Mode: 99% Battery Mode: 96% Display 10.4" (240-600kVA) or 7" (80-200kVA) touch screen LCD + LED+ Keyboard IP Class IP20 Interface RS232, RS485, USB, Programmable dry contact Option SNMP, Parallel kit, SPD, Dust Filter, LBS Temperature Operation: 0 ~ 40 °C Storge: -40 ~ 70 °C		Frequency P	recision	0.1%								
Crest Factor 3:1		Output PF		1								
Inverter Overload	Output	Output THDu	I	<1% linear load; <5.5% non-linear load								
Inverter Overload 125% for 10 mins; 150% for 1 min; >150% for 200 ms		Crest Factor		3:1								
Battery Number 40pcs (settable: even number from 32 to 44) Voltage Precision Charger Power Battery Cold Start Standard Optional Efficiency Display IP Class IP20 Interface RS232, RS485, USB, Programmable dry contact Option SNMP, Parallel kit, SPD, Dust Filter, LBS Temperature 40pcs (settable: even number from 32 to 44) 1% Charger Power up to 20% *Output active power Battery Cold Start Standard Optional Optional		Inverter Over	load	125% for 10 mins; 150% for 1 min;								
Battery Number 40pcs (settable: even number from 32 to 44) Voltage Precision Charger Power Battery Cold Start Standard Optional Efficiency Display IP Class IP20 Interface RS232, RS485, USB, Programmable dry contact Option SNMP, Parallel kit, SPD, Dust Filter, LBS Temperature 40pcs (settable: even number from 32 to 44) 1% Charger Power up to 20% *Output active power Battery Cold Start Standard Optional Optional		Battery Rate	Voltage									
Battery Voltage Precision Charger Power Battery Cold Start Standard Optional Efficiency Display Interface System Voltage Precision 1% Up to 20% *Output active power Up to 20% *Standard Optional Op		_										
Charger Power Battery Cold Start Standard Optional Efficiency Display IP Class Interface Option System System Up to 20% *Output active power Up to 20% *Output active power Up to 20% *Output active power Standard Optional Optional Standard Optional Optional Optional Standard Optional	Battery	_					(00110101)			2 10 1 1)		
Battery Cold Start Standard Optional Standard Optinal Efficiency AC Mode: 96% ECO Mode: 99% Battery Mode: 96% Display 10.4" (240-600kVA) or 7" (80-200kVA) touch screen LCD + LED+ Keyboard IP Class IP20 Interface RS232, RS485, USB, Programmable dry contact Option SNMP, Parallel kit, SPD, Dust Filter, LBS Temperature Operation: 0 ~ 40 °C Storge: -40 ~ 70 °C												
Efficiency AC Mode: 96% ECO Mode: 99% Battery Mode: 96% Display 10.4" (240-600kVA) or 7" (80-200kVA) touch screen LCD + LED+ Keyboard IP Class IP20 Interface RS232, RS485, USB, Programmable dry contact Option SNMP, Parallel kit, SPD, Dust Filter, LBS Temperature Operation: 0 ~ 40 °C Storge: -40 ~ 70 °C					Stan						Opti	inal
Display IP Class IP20 Interface Option Temperature 10.4" (240-600kVA) or 7" (80-200kVA) touch screen LCD + LED+ Keyboard IP20 SNMP, Parallel kit, SPD, Dust Filter, LBS Operation: 0 ~ 40 °C Storge: -40 ~ 70 °C		Efficiency				AC Mode:	96% ECO	Mode: 99	% Battery	Mode: 96%		
IP Class Interface Interface RS232, RS485, USB, Programmable dry contact Option SNMP, Parallel kit, SPD, Dust Filter, LBS Temperature Operation: 0 ~ 40 °C Storge: -40 ~ 70 °C				10	0.4" (240-6	600kVA) or	7" (80-20	0kVA) tou	ch screen	LCD + LED+	Keyboard	I
System Option SNMP, Parallel kit, SPD, Dust Filter, LBS Temperature Operation: 0 ~ 40 °C Storge: -40 ~ 70 °C												
System Option SNMP, Parallel kit, SPD, Dust Filter, LBS Temperature Operation: 0 ~ 40 °C Storge: -40 ~ 70 °C		Interface				RS232, F	RS485, US	B, Progra	mmable d	lry contact		
Temperature Operation: 0 ~ 40 °C Storge: -40 ~ 70 °C		Option										
	System	Temperature	:			Oper	ation: 0 ~	40 °C Sto	rge: -40 ~	-70 °C		
Relative Humidity 0 ~ 95% Non condencing									•			
Altitude <1000m, Load derated 1% per 100m From 1000 ~ 2000m					<10	000m, Loa	d derated	1% per 10	0m From	1000 ~ 2000r	n	
Noise (1 meter) 72dB @ 100% load, 69dB @ 45% load												
Applicable Standard Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3			-	Safe	ety: IEC/EN	N 62040-1	EMC: IEC	C/EN 6204	0-2 Perfo	rmance: IEC/	EN 62040)-3
Cabinat 1040 900 700 400 350 210 400 350 210		Cabinot		1040	900	700	490	350	210	490	350	210
Weight (kg) Power module 45 Weight (kg)		vveight (kg)	Power module			4	5				44	
Physical Dimension Cabinet 1300*1100*2000 1050*1000*200 650*1095 650*960 600*980 650*1095 650*960 600*980	Physical	Dimension	Cabinet	1300*11	00*2000							
W*D*H (mm) Power module 510*700*178 510*700*178		W*D*H (mm)						1000	1100			1150





RM Series Modular Online UPS 5-20kVA (220V/230V/240V)

RM3120/05D series is modular online UPS with hot-swappable battery. The single cabinet power is ranging from 5kVA to 20kVA, with its flexible configuration of 3/1 and 1/1, compact structure is the ideal choice for small data center, as well as for sensitive electronics, convenient to be integrated with server. With its high power factor and excellent overload capability, and the improvement of the efficiency of power utilization, it ensures the system operate steadily.





Application

All kinds of small and medium data center, network servers, control system, precision instruments and intelligent equipments.

Features

- High efficiency, more than 94.5%
- Rack modular design, compatible with 19" standard rack cabinet, convenient to be integrated with server
- Easy for power expansion and backup time expansion
- Intelligent protection and monitoring technology for safe
 and reliable battery package of the system

- Modular design with swappable power module and battery
- Flexible configuration, based on 5kVA can be configured to 3/1 and 1/1 without derating
- Friendly interface with 7" touch color LCD with graphic display, more information displayed and easier to operate
- · Complete solution for small data room center

Specification

MODEL			RM3120	0/05DS				
Sytem Ca	apacity		20kVA					
Power Mo	odule Capacity		5kVA	/5kW				
	Phase		3Phase+Neutral+Ground, 38	80V/400V/415V (line to line)				
	Innut Valtage De		277~478Vac (line-line),full lo	pad; 147~277Vac (line-line)				
	Input Voltage Ra	nge	load decreases linearly from 100%~50% according to the min. phase voltage					
Input	Rate Frequency		50/60Hz					
	Inout Frequency	Range	40~70Hz					
	Input PF		>0.	99				
	Input THDi		<5%(100%Linear load)					
Rate Voltage			220V/230V/240	V (line-neutral)				
	Rate Frequency		50/60	0Hz				
Bypass	Input Voltage Ra	ange	settable, default	t -20% ~ +15%;				
	input voitage ixe	arige	upper limit: +25%;	lower limit: -40%				
	Bypass Frequen	cy Range	settable,±1Hz,	, ±3Hz, ±5Hz				
	Rate Voltage		220V/230V/240	V (line-neutral)				
	Voltage Regulation	on	±2	%				
	Rate Frequency		50/60Hz	±0.01%				
	Output PF		1					
Output	Output THDu		<1% linear load, <5% non-linear load					
	Inverter	Normal	<110% for 1 hour; 110%~130% for 10 mins;					
		Normal	130%~150% for 1 min	s; >150% for 200 ms				
	Overload	Datta	<110% for 10 mins; 11	10%~125% for 1 min;				
		Battery	125%~130% for 10 s	; >130% for 200 ms				
			144\	/DC				
	Voltage		(12pcs, settable 12 to14pcs)					
Battery			0~1.8A settable(each module)					
	Charge Power		0~1.0A settable(each module) 0-10A (charger module)					
	Voltage Precision	n	19	•				
	r enage r recioio	AC Mode	>94.5%					
	Efficiency	Eco Mode	>98	8%				
	•	Battery Mode	>90	0%				
	Display		LCD+LED, 7" touch cold	or screen and keyboard				
	IP Class		IP2	20				
System	Interface		Standard: RS232, RS48	85, USB, Dry contacts				
	Option		SNMP card, AS400 card	d, SPD, dust filter, LBS				
	Temperature		Operation: 0-40°C	Storge: -40~70°C				
	Relative Humidit	у	0-95% Non-o	· ·				
	Altitude		<1000m, Load derated 1% pe	er 100m From 1000~2000m				
	Noise(dB) (1 me	ter)	55dB @10	00% load				
			UPS	Battery				
	Weight(kg)	Cabinet	66.5kg	67.3kg				
Physical	roigin(Ng)	Module	7.5kg	17.8kg				
	Dimension	Cabinet	443*69					
	(W*D*H)(mm)	Module	200*431*84.5	200*516*84.5				





RM Series Modular Online UPS 60-600kVA (380V/400V/415V)

RM600/60D series are modular online UPS with brand-new topology, a bidirectional DC-DC converter circuit, which greatly improve the system performance and guarantees high efficiency of 97%. Its compact design ensures the power density, achieving this 600kW system's occupation only an area of 0.9m². RM series is considered to be an excellent power supply solution for large data centers and facilities.







Staggered and combined power supply

The utility and battery supply power to the load together and the compensation ratio is automatically calculated

Compact design

600kVA in one cabinet, footprint less than 0.88m², saving great space of data center

High power density 60kVA power module in 2U height, easy for capacity expansion

Intelligent charging management
The system intelligently control the whole process
of the charging and discharging, double side DC-DC

topology, support charging power reaching 30%

Friendly HMI

Ultra-large 10" color touch LCD display for IoT appliacation, storage of the history log up to 2000

Multi communication interface Provide CAN, RS485, USB, SNMP, AS400 and programmable dry contacts

High scalability

The system can be configured from 60kVA to 1.8MW, max 30 power modules 3 cabinets in parallel.

Smart sleep function

System can intelligently shutdown some power modules to increase total load rate, achieving higher efficiency

Specification

Model			RM 600/60D					
System C	apacity		600kVA					
Power Mo	dule Capacity		60kVA/kW					
	Dual Input		Standard					
	Phase		3Phase+Neutral+Ground, 380/400/415VAC (line-line)					
	Rate Frequen	су	50/60Hz					
Input	Input Voltage I	Range	323~478Vac (line-line), full load 323V~138Vac (line-line), load decrease linearly from 100% to 30% according to the min. phase voltage					
	Input Frequen	cy Range	40Hz ~ 70Hz					
	Inpput PF	, 0	>0.99					
	Input THDi		<3% (100% Linear load)					
	Rate Voltage		380/400/415VAC (line-line)					
	Rate Frequen	су	50/60Hz					
Bypass	Input Voltage I	Range	Settable, default -20%~+15% Up limit: +10%, +15%, +20%, +25% Down limit: -10%, -15%, -20%, -30%, -40%					
	Bypass Frequ	ency Range	Settable, ±1Hz, ±3Hz, ±5Hz					
	Bypass Overlo	oad	110% for long term operation; 110%~125% for 10 mins; 125%~150% for 1 min; >150% for 200 ms					
	Rate Voltage		380/400/415VAC (line-line)					
	Rate Frequen	су	50/60Hz					
	Output PF		1					
	Voltage Regulation		±1%					
Output	Output THDu		<1% Linear load; <5%, Non-linear load					
	Inverter Overlo	oad	<110%, 1 hour; 110%~125%, 10 mins; 125%~150% for 1 min; >150% for 200 ms					
	Rate Frequen	су	50/60Hz					
	Frequency Pro	ecision	± 0.1%					
Battery	Voltage		±180~264VDC 30pcs derate to 0.7; 32~34pcs derate to 0.8; 36~38pcs derate to 0.9; 40~44pcs					
	Voltage Precis	sion	1%					
	Charge Powe		Up to 30% * Output active power					
	F##:-!	AC Mode	>97%					
	Efficiency	Battery Mode	>96%					
	Display		LED+Color touch LCD					
	Interface		Standard: RS485, USB, CAN, Programmable Dry Contact Intelligent card slot*2, Extendable dry contact slot					
System	Option		SNMP card, AS400 card, Parallel kit, SPD, Dual input kit, LBS					
	Temperature		Operation: 0~40 °C Storage: -40~70 °C					
	Relative Humidity		0~95% Non-condensing					
	Noise(1 meter	r)	75dB @ 100% load, 70dB @ 45% load					
	Altitude		<1000m. Within 1000m~2000m, 1% power derating for every 100m					
	Application Sta	andard	Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3					
	Dimension	Cabinet	800*1100*2000					
Physical	(W*D*H,mm)		550*750*85					
Joioui	Weight (kg)	Cabinet	443					
		Power Module	35.7					





RM Series Modular Online UPS 100-600kVA (380V/400V/415V)

The RM Series modular online UPS single cabinet power rating covers from 100kVA to 600kVA, provides the highest power density of 100kW modules in 4U height. 4 units can be paralleled for capacity maximum up to 3.2MW. With the latest technology of 3-level technology and PFC input control, the RM series delivers the best combination of reliability, hot-swappable function and flexibility.







Features

High efficiency

Advanced 3-level technology guarantees, high efficiency operating in double conversion mode up to 96%

Battery neutral free design

Two kind of power module to choose, battery N line free or not, saving instruction cost for customer

High power density

100kVA power module in 4U height, easy for capacity expansion

Reliable Performance

Fully digital control, achieving the input power factor >0.99, input THDi<3% and overall efficiency>96%

Friendly HMI

Ultra-large 10" color touch LCD display for IoT appliacation intuitive information and easier to operate

Multi communication interface Provide CAN, RS485, USB, SNMP, AS400 and programmable dry contacts

High scalability

The system can be configured from 100kVA to 3.2MW, max 32 power modules in parallel.

Smart sleep function

System can intelligently shutdown some power modules to increase total load rate, achieving higher efficiency

Specification

Model			RM 600/100D				
System C	apacity		600kVA				
_	dule Capacity		100kVA/100kW				
. over me	Dual Input		Optinal				
	Phase		3Phase+Neutral+Ground, 380/400/415VAC (line-line)				
		101/	50/60Hz				
	Rate Frequency Input Voltage Range						
Input			323~478Vac (line-line), full load; 323V~191Vac (line-line), load decrease linearly from 100%~40%; 191V~138V (line-line), load decrease linearly from 45%~35% according to the min. phase voltage				
	Input Frequen	cy Range	40Hz∼70Hz				
	Input PF		>0.99				
	Input THDi		<3% (100% Linear load)				
	Rate Voltage		380/400/415VAC (line-line)				
	Rate Frequen	ICV	50/60Hz				
Bypass	Input voltage I		Settable, default -20% ~ +15% Up limit: +10%, +15%, +20%, +25% Down limit: -10%, -15%, -20%, -30%, -40%				
	Bypass Frequ	uency Range	Settable, ±1Hz, ±3Hz, ±5Hz				
	Bypass Overl	oad	110% long term operation; 110% ~ 125% for 5 mins; 125% ~ 150% for 1 mir 150% ~ 400% for 1 s; >400% less than 200 ms				
	Rate Voltage		380/400/415VAC (line-line)				
	Rate Frequen	icy	50/60Hz				
	Output PF		1				
	Voltage Regu	lation	±1%				
Output	Output THDu		<1% , Linear load, <5% , Non-linear load				
	Inverter Overl		<110% for 1 hour; 110%~125% for 10 mins; 125%~150% for 1 min; >150% for 200 ms				
	Frequency Pr	ecision	±0.1%				
Battery	Voltage		±180 ~ 288VDC 30 ~ 32pcs derate to 0.7 34 ~ 36pcs derate to 0.8 38pcs derate to 0.9 40 ~ 48pcs				
	Voltage Precis	sion	±1%				
	Charge Powe		Up to 15% * Output active power				
	Ŭ	AC Mode	>96%				
	Efficiency	Battery Mode	>95%				
	Display	, , , , , , , , , , , , , , , , , , , ,	LED+ Color touch LCD screen				
	Interface		RS485, USB, CAN, Programmable Dry Contact, 2 Intelligent slots				
System	Option		SNMP Card, AS400 Card, Parallel kit, dual input kit, SPD, LBS, GSM				
Cyclom	Temperature		Operation: 0 ~ 40 °C Storge: -40~70°C				
	Relative Hum	idity	0 ~ 95% Non-condensing				
	Noise (1 meter	•					
	Altitude	.,	75dB @ 100% load, 70dB @ 45% load <1000m. Within 1000~2000m, 1% power derating for every 100m rise				
	Dimension	Cabinet	1000*1100*2000 1000*1100*2000				
		Power module					
Physical	(** 5 11,11111)		440*795*174				
	Weight (kg)	Cabinet	400				
		Power module	53.5				





HT33 Series Tower Online UPS 60-500kVA (380V/400V/415V)

HT33 series three phase UPS offers advanced technology that increase performance and reliability: three high speed DSPs with completed digital control fully ensure high quality of power supply, high input power factor and low input current distortion. It also offers humanization design: full front access of serviceability and user friendly interface.





Application

- IDC(Internet Data center), ISP, IT Room, Service Center
- Precision instruments, Intelligent equipments

Features

- High efficiency, up to 96%
- High input PF > 0.99; Input current THDi < 3%
- Multi-protection, over-temperature protection with 8 sensors, over-load, battery under voltage, fan failures, short-circuit
- Battery cold start
- Battery management with smart charging control, greatly extend the battery life

- High power density
- Parallel up to 1500kVA
- Modular design of subsystem, convenient for field maintenance
- Friendly operation interface, color touch LCD screen

Specification

MODEL			HT33060X	HT33080X	HT33090X	HT33100X	HT33120X	HT33150X	HT33200X	HT33250X	HT33300X	HT33400X	HT33500X
System 0	Capacity		60kVA	80kVA	90kVA	100kVA	120kVA	150kVA	200kVA	250kVA	300kVA	400kVA	500kVA
	Dual Input			Standard Optional S							Sta	ndard	
	Phase		3 Phase+Neutral+Ground, 380V/400V/415V (line-line)										
lanut	Input Volta	ige Range	304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min. phase voltage										
Input	Rate Frequ	uency	50/60Hz										
	Input Freq	uency Range	40Hz ~ 70Hz										
	Input PF	>0.99											
	Input THD	i	<3% (100% Linear load)										
	Rate Volta	age	380/400/415Vac (line-line)										
	Rate Frequency							50/60H	Z				
	Input Volta	age Range					Settabl	e, -40%	~ +25%	, D			
Bypass	Bypass Fr	requency Range				Se	ettable, :	±1Hz, ±	3Hz, ±5	Ήz			
	Bypass Overload		125% long term operation 130% for 10 mins 150% for 1 min >150% for 300 ms						110	125% t	term ope for 5 min for 1 mir % for 1 s	า	
	Rate Volta	age				38	30/400/4	15Vac	(line-line	e)			
	Voltage Regulation		1% for balance load; 1.5% for unbalance load										
	Rate Frequency		50/60Hz										
Output	Frequency Precision		0.1%										
Output	Output PF							1					
	Output Th			<	1% , Lir	near Ioa	d; <5%,	Non-lin	ear load	d			
	Crest Factor		3:1										
	Inverter Overload		110% for 1 hour; 125% for 10 mins; 150% for 1 min; >150% for 200 ms										
	Voltage		±240Vdc										
	Battery N	umber	40pcs (Settable: even number from 32 to 44)										
Battery	Voltage P	recision	±1%										
	Charge P	ower	up to 20% * Output active power										
	Battery C	old Start	Optional Standard										
		AC Mode	95%	96%	95%	96%	95%			96	6%		
	Efficiency	ECO Mode						99%					
		Battery Mode	95%	96%	95%	96%	95%				6%		
	Display		10.4"(2	40kVA-	500kVA) or 7"(6	60kVA-2	200kVA)	touch s	screen L	.CD + L	ED + ke	eyboard
	IP Class							IP 20					
System	Interface				RS23	32, RS4	85, Pro	gramma	ble Dry	Contac	t, USB		
Cyclom	Option				SNI	MP Car	d, Paral	lel kit, S	PD, LB	S, Dust	filter		
	Temperati	ure			C	peratio	n: 0 ~ 40	o°C S	torge: -	40 ~ 70	°C		
	Relative H	lumidity				0	~ 95%	Non-cor	ndensin	g			
	Altitude		<1	000m. \	Within 1	000m to	2000m	n, 1% pc	wer de	rating fo	r every	100m ri	ise
	Noise (1 m	neter)				65dB @	0 100%	load, 62	2dB @ 4	45% loa	d		
	Applicable	Standards	Safety	: IEC/E	N 6204	0-1 EM	C: IEC/	EN 620	40-2 Pe	erforma	nce: IEC	C/EN 62	040-3
	Weight (kg	3)	170	210	231	210	266	305	350	445	490	700	900
Physical	Dimension	n W*D*H (mm)	600*980 *950	600*980 *1150	600*980 *1400	600*980 *1150	600*980 *1400	650*960 *1600	650*960 *1600	650*970 *2000	650*970 *2000	1050*1000 *2000	1300*1100 *2000





HT33 Series Tower Online UPS 10-40kVA (380V/400V/415V)

HT33 series UPS applies advanced technology that increases performance and reliability: two high speed DSPs with completed digital control to ensure high quality of power supply, high input power factor and low input current distortion.





Application

• IDC(Internet Data center), ISP, Computer Room, Service Center • Precision instruments, Intelligent equipments

Features

- High efficiency, up to 96%
- High input PF > 0.99; Input current THDi < 4%
- Multi-protection, over-temperature protection with 8 sensors, over-load, battery under voltage, fan failures, short-circuit
- Four circuit breakers, providing full protection when fault happens
- Battery cold start
- Battery management with smart charging control, greatly extend the battery life
- Parallel up to 4 units
- Friendly operation interface, high-resolution LCD screen

Specification

			HT33010XS	HT33015XS	HT33020XS	HT33030XS	HT33040XS		
MODEL			HT33010XL	HT33015XL	HT33020XL	HT33030XL	HT33040XL		
System (Capacity		10kVA	15kVA	20kVA	30kVA	40kVA		
	Dual Input		Standard						
	Phase		3 Phase+Neutral+Ground, 380V/400V/415V (line-line)						
lanut	Input Volta	age Range	304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min. phase voltage						
Input	Rate Frequ	uency	50/60Hz						
	Input Freq	uency Range	40Hz ~ 70Hz						
	Input PF				>0.99				
	Input THD)i	<4% (100%	Linear load)	<3%	(100% Linear lo	ad)		
	Rate Volta	age		380/	400/415Vac (line	-line)			
	Rate Freq	uency			50/60Hz				
Bypass	Input Volta	age Range		Se	ttable, -40% ~ +2	25%			
	Bypass Fr	requency Range			ble, ±1Hz, ±3Hz,				
	Bypass O	verload	125%	long term opera	ation; 130% for 1	0 mins; 150% for	1 min		
	Rate Volta	~			400/415Vac (line	•			
	Voltage R	_		1% for balance	load; 1.5% for ur	balance load			
	Rate Freq	-	50/60Hz						
Output	Frequency Precision				0.1%				
	Output PF			1		0.9			
	Output THDu Crest Factor			<1%, Linear	load; <5.5%, No	n-linear load			
	Inverter Overload		1100/ 5	4.1 4050/ 5	3:1	4.5.4500/			
			110% for	i nour; 125% for	±240Vdc	or 1 min; >150%	for 200 ms		
	Voltage		40pcs (Settable: even number from 32 to 44)						
Battery	Battery N		±1%						
Dallery	Voltage P		up to 20% * Output active power						
	Charge P		Optional						
	Battery C			05	0%		96.0%		
	Efficiency	AC Mode ECO Mode		95.	98.0%		90.0 %		
		Battery Mode		95	.0%		96.0%		
	Display	Dattery Wode			D + LED + keybo	oard	30.070		
	IP Class				IP 20				
	Interface				RS232, RS485				
System	Option		SNI	MP Card, Paralle	l kit, USB, Progra	ammable Dry Cor	ntact		
	Temperati	ure			~40 °C Storge				
	Relative H			•	5% Non-condens				
	Altitude		<1000m. Within 1000m to 2000m, 1% power derating for every 100m rise						
	Noise (1 meter)		55dB @ 50% load						
	Applicable	Applicable Standards		62040-1 EMC:	IEC/EN 62040-2	Performance: II	EC/EN 62040-3		
			51.5	51.5	89	89	140		
Dhysical	Weight (kg	3)	31	31	50	52	61		
Physical	Dimension W*D*H (mm)		250*840*715	250*840*715	350*738*1335	350*738*1335	500*840*1400		
			250*660*530	250*660*530	250*680*770	250*680*770	250*836*770		





HT33-TX Series Tower Online UPS 10-40kVA (380V/400V/415V)

HT33-TX series in-built transformer three phase UPS applies advanced technology that increases performance and reliability: two high speed DSPs with completed digital control fully ensure high quality of power supply, high input power factor and low input current distortion. With in-built transformer, the HT33-TX is providing more safety to critical load.





Application

- IDC(Internet Data center), ISP, IT Room, Service Center
- Precision instruments, Intelligent equipments

Features

- In-built galvanic isolation transformer
- High input PF > 0.99; Input current THDi < 4%
- Multi-protection, over-temperature protection with 8 sensors, over-load, battery under voltage, fan failures, short-circuit
- Four circuit breakers, providing full protection when fault happens
- Battery cold start
- Battery management: smart charging control, auto maintenance, greatly extend the battery life
- Friendly operation interface, high-resolution LCD screen

Specification

MODEL			HT33010X-TX	HT33020X-TX	HT33030X-TX	HT33040X-TX		
System (Capacity		10kVA	20kVA	30kVA	40kVA		
	Dual Input		Standard					
	Phase		3 Phase+Neutral+Ground, 380V/400V/415V (line-line)					
Input	Input Volta	ige Range	304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min. phase voltage					
IIIput	Rate Frequency			50/6	0Hz			
	Input Frequency	uency Range		40Hz ~	~ 70Hz			
	Input PF			>0	.99			
	Input THD	i	<4%		<3%			
	Rate Volta	age		380/400/415\	/ac (line-line)			
	Rate Freq	uency		50/6	0Hz			
Bypass	Input Volta	age Range		Settable, -4	0% ~ +25%			
	Bypass Fr	requency Range		Settable, ±1Hz	z, ±3Hz, ±5Hz			
	Bypass O	verload	125% lon	g term operation; 130	% for 10 mins; 150%	for 1 min		
	Rate Volta	•		380/400/415\	/ac (line-line)			
	Voltage R	egulation	1%	for balance load; 1.5	% for unbalance load			
	Rate Freq	•	50/60Hz					
Output		y Precision	0.1%					
	Output PF		0.9					
	Output TH		<1%, Linear load; <5.5%, Non-linear load					
	Crest Fac		3:1					
	Inverter O	verload	110% for 1 hour; 125% for 10 mins; 150% for 1 min; >150% for 200 ms					
	Voltage		±240Vdc					
-	Battery N		40pcs (Settable: even number from 32 to 44)					
Battery	Voltage P		±1%					
	Charge P		up to 20% * Output active power					
	Battery C	old Start	Optional					
	⊏f€ -:	AC Mode		92.				
	Efficiency	ECO Mode		95.				
	D: 1	Battery Mode		92.				
	Display			LCD + LED				
	IP Class				20 , RS485			
System	Interface		CNIMD (Contact		
	Option			Card, Parallel kit, USE	•			
	Temperatu		Operation: 0 ~ 40 °C Storge: -40 ~ 70 °C					
	Relative H	lumidity	0 ~ 95% Non-condensing <1000m. Within 1000m to 2000m, 1% power derating for every 100m rise					
	Altitude Noise (1 m	neter)	< 1000m. within	55dB @	· -	every 100m rise		
	,	•	Cofoty ICO/CN 000			0. IEC/EN 00040.0		
	Weight (kg	Standards	200	040-1 EMC: IEC/EN 220	62040-2 Performand 240	300 300		
Physical								
	Dimension W*D*H (mm)		250*658*955	350*757*1335	350*757*1335	500*840*1400		





HR33 Series Rack Online UPS 10-40kVA (380V/400V/415V)

The HR33 Series Rack is double conversion online UPS with fully DSP controlled technology. With its flexible configuration of 3/3 and 3/1, compact design, it's the ideal choice for modern data center.





Application

IDC(Internet Data Center), network servers and workstation, control system, communication system, office, PC etc

Features

Rack Design

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

- Friendly Interface
- 5.5" touch color LCD with graphic display, more information displayed and easier for customer to operate
- Flexible configuration

The system of 10kVA and 20kVA can be configured to 3/3 and 3/1

Intelligent charging management

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

Specification

MODEL			HR33010CL	HR33015CL	HR33020CL	HR33025CL	HR33030CL	HR33040CL	
System 0	Capacity		10kVA/10kW	15kVA/15kW	20kVA/20kW	25kVA/25kW	30kVA/30kW	40kVA/40kW	
	Dual Input		Standard						
	Phase		3 Phase+Neutral+Ground, 380V/400V/415V(line-line)						
lament	Input Volta	ige Range	304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min. phase voltage						
Input	Rate Frequ	uency			50/6	60Hz			
	Input Frequency Range				40Hz -	~ 70Hz			
	Input PF				>0	.99			
	Input THD	i	<4% (100%	Linear load)		<3% (100%	Linear load)		
	Rate Volta	age			380/400/415\	/ac (line-line)			
	Rate Freq	uency			50/6	60Hz			
Bypass	Input Volta	age Range			Settable, -4	40% ~ +25%			
	Bypass Fr	requency Range			Settable, ±1H	z, ±3Hz, ±5Hz			
	Bypass O	verload	125% long	g term operation	on; 130% for 1	0 mins; 150%	for 1 min, >15	50% for 1s	
	Rate Volta	age			380/400/415\	/ac (line-line)			
	Voltage R	egulation		1% for bal	ance load; 1.5	% for unbalan	ce load		
	Rate Frequency		50/60Hz						
Output	Frequency Precision		0.1%						
	Output PF					1			
	Output THDu		<1%, Linear load; <5.5%, Non-linear load <1.5%, Linear load; <6%, Non-linear load					load	
	Crest Factor		3:1						
	Inverter O	verload	110% for 1 hour; 125% for 10 mins; 150% for 1 min; >150% for 200 ms						
	Voltage		±240Vdc						
	Battery No	umber	40pcs (Settable: even number from 32 to 44)						
Battery	Voltage P	recision	±1%						
	Charge P	ower	up to 20% * Output active power						
	Battery Co	old Start			Star	ndard			
		AC Mode	95	5%		.5%	96	5%	
	Efficiency	ECO Mode				3%			
		Battery Mode	94.	5%		5%	95.	5%	
	Display				LCD + LED	+ keyboard			
	IP Class					20			
System	Interface		RS232 for	10-25kVA, US	SB for 30-40kV	/A, RS485, Pro	ogrammable D	ry Contact	
	Option		LBS			025CL, SNMF		el kit	
	Temperatu			Operat		Storge: -40	~ 70 °C		
	Relative H	lumidity	0~95% Non-condensing						
	Altitude		<1000m.			% power derat		00m rise	
	Noise (1 m	neter)		65dB	@ 100% load	I, 62dB @ 45%	6 load		
		Standards	Safety: IEC/	'EN 62040-1 I		62040-2 Perf			
Physical	Weight (kg		2	5	3	30	4	1	
., 5.00.1	Dimension	W*D*H (mm)	438*78	30*130	438*7	80*130	438*70	00*174	





HT31 Series Tower Online UPS 10-40kVA (220V/230V/240V)

HT31 series is online double-conversion UPS with full DSP control technology. With high input and output power factor, self-adjusting output frequency and network management, HT31 is a perfect choice for computers, telecommunication equipments and other sensitive devices.





Application

IDC(Internet Data Center), network, servers and workstations, office etc

Features

Common features for 10-40kVA

- Full protection of overvoltage, circuit short and over temperature
- Auto fan speed adjustment
- Abundant interface: RS232, USB, SNMP, Intelligent Card
- Parallel up to 2 units

Unique features for 10-20kVA

- Output PF=1
- Small size with higher power density
- Digital Charger, adjustable from 1A to 5A
- 12A charger for option, charging for large capacity batteries

Specification

MODEL	HT3110XL	HT3115XL	HT3120XL	HT3140L					
Capacity	10kVA 15kVA		20kVA	40kVA					
Phase	Three phase in, Single phase out								
		190Vac~499Vac		228Vac~478Vac					
Input voltage range		@ >305Vac, 90% load@ @ >228Vac, 50% load@		100% load@ >305Vac 90% load@ >266Vac 75% load@ >228Vac					
Input PF		≥0.	.99						
Input THDi		≤4% (100% Linear load)		≤3% (100% Linear load)					
Input frequency range		40Hz-	-70Hz						
Output PF		1		0.9					
Output voltage		220V/23	0V/240V						
Voltage regulation		1'	%						
THDu	<u> </u>	≤1% (full linear load) ≤3% (full non-linear load)	≤1% (full linear load) ≤5% (full non-linear load)					
Battery voltage		192Vdc		±240Vdc					
Battery type/number		Exte	ernal						
System officionay	Normal: 94.5%;		Normal: 95%						
System efficiency	ECO :98%;								
Noise(1 meter away)	<50dB	@<70%load; <58dB@>	70%load	65dB @ 100%load 62dB @ 45%load					
Overload capability (Inverter mode)	1	110%: for 10 min 50%: for 30 sec (shut do		in)					
Overload capability (Battery mode)		after 1 min; 130%: shut on the contract of the		110%: shut down after 10 min; 125%:shut down after 10 sec; >125%: shut down after 1 sec					
Crest factor		3	:1						
Display		LED+LCD		10.4" color touch screen LCD+LED					
Interface	Standard: RS232, RS48: Standard: RS232, RS48: USB, Dry contacts Optional: RS485, USB, SNMP, Dry contacts Optional: SNMP, parallel Battery cold start								
W*D*H(mm)	190*485*336	600*980*950							
Weight(kg)	22	33	170						





HR31 Series Rack Online UPS 15-20kVA (220V/230V/240V)

HR31 series is online double-conversion UPS with full DSP control technology. With high input and output power factor, self-adjusting output frequency and network management, HR31 is a perfect choice for computers, telecommunication equipments and other sensitive devices.





Application

IDC(Internet Data Center), network, servers and workstations, office etc

Features

- Full protection of overvoltage, circuit short and over temperature
- Auto fan speed adjustment
- High efficiency, up to 96%
- Parallel up to 2 units

- Output PF=1
- Digital Charger, adjustable from 1A to 5A
- 12A charger for option, charging for large capacity batteries
- Self-aging mode, system can simulate full load test without connecting real load, saving more than 90% energy

Specification

MODEL	HR3115XL	HR3120XL							
Capacity	15kVA	20kVA							
Phase	Three phase in, Single phase out								
	190Vac~499Vac								
Input voltage range	100% load@ >305Vac, 90% load@ >266Vac 75% load@ >228Vac, 50% load@ >190Vac								
Input PF	≥0.	99							
Input THDi	≤4% (100%	Linear load)							
Input frequency range	40Hz-	-70Hz							
Output PF		1							
Output voltage	220V/23	0V/240V							
Voltage regulation	19	%							
THDu	≤1% (full linear load) ≤3% (full non-linear load)								
Battery voltage	192	Vdc							
Battery type/number	External								
0 , " "	Normal: 95%								
System efficiency	ECO: 98%;								
Noise(1 meter away)	<62	2dB							
Overload capability (Inverter mode)	110%: for 10 min; 150%: for 30 sec (shut do	125%: for 1 min; wn the bypass after 1 min)							
Overload capability (Bypass mode)	<125%: long term operation; 150%: shut down after 1min; >	130%:shut down after 5 min; 150%: shut down after 200 ms							
Crest factor	3	:1							
Display	LED+	-LCD							
Interface	Standard: RS232, EPO Optional: RS485, USB, SNMP, Dry contacts								
W*D*H(mm)	438*74	14*173							
Weight(kg)	3	3							





HT11 Series Tower Online UPS 6-20kVA (220V/230V/240V)

HT11 series, ranging from 6kVA to 20kVA, is double conversion online UPS with fully DSP controlled technology. The single phase UPS applies the advanced 3-level technology, achieving efficiency up to 95%. With its compact design of high power density (kW=kVA), HT11 series makes it an ideal choice for computers, telecommunication equipment and sensitive devices.





Application

IDC(Internet Data Center), network, servers and workstations, office etc

Features

- High efficiency, up to 95%
- kVA=kW, Output PF=1
- 3 level of technology, compatible with complicated load
- Battery number can be set on LCD

- Intelligent charging management, effectively improving the life time of battery
- Smaller size with higher power density
- Parallel up to 2 units
- 12A charger for option, charging for large capacity batteries

Specification

MODEL	HT1106XS	HT1106XL	HT1110XS	HT1110XL	HT1115XL	HT1120XL		
Capacity	6kVA/6kW	6kVA/6kW	10kVA/10kW	10kVA/10kW	15kVA/15kW	20kVA/20kW		
Phase	Single phase in , Single phase out							
			110Vac	-288Vac				
Input voltage range	100% load@ > 176Vac; 90% load@ > 160Vac 80% load@ > 140Vac; 60% load@ > 110Vac							
Input THDi		≤4%@1	00% load; ≤6%@	050% load (linea	ar load)			
Input PF			≥0.	.99				
Input frequency range			40Hz-	-70Hz				
Output PF				1				
Output voltage			220V/23	0V/240V				
Voltage regulation			±1	%				
THDu		≤1%(linear); ≤	5% (non-linear)		≤1%(linear); ≤	3% (non-linear)		
Battery voltage			192\	√dc				
Battery type/number	12V, 7Ah*16	External	12V, 9Ah*16	External	External			
System efficiency			Normal m	ode: 95%				
Noise(1 meter away)			<70%load; >70%load			<70%load; >70%load		
Overload capability (Inverter mode)			110%: for 10 mir 150%: for	n;125%: for 1 mir 30 second	า;			
Overload capability (Battery mode)			wn after 1 min; 1 130%: shut dowi		after 10 second;			
Crest factor			3	:1				
Display			LED+	+LCD				
Interface	Standard:RS232 Optional: SNMP, USB, RS485, Dry Contacts, Parallel Kit							
W*D*H (mm)	190*426*705	190*426*336	190*485*705	190*485*336	190*485*480			
Package Weight (kg)	56	14	60	16	3	3		





HT11 Series Tower Online UPS 1-3kVA (220V/230V/240V)

HT11 series is online double-conversion UPS with full DSP control technology. With high input and output power factor, self-adjusting output frequency and network management, HT11 is a perfect choice for computers, telecommunication equipments and other sensitive devices.



Application

IDC(Internet Data Center), network, servers and workstations, control system, communication system, office, PC etc

Features

- Wide range of input voltage while input PF>97%
- Output PF is 0.9, more powerful load capability
- Full protection of overvoltage, circuit short and over temperature
- LCD/LED display, monitoring all the operation status
- Auto fan speed adjustment
- Reliable and stable pure sine wave output

Specification

	1	HT1101S	HT1101L	HT1102S	HT1102L	HT1103S	HT1103L				
MODEL	II	HT1101S-II	HT1101L-II	HT1102S-II	HT1102L-II	HT1103S-II	HT1103L-II				
Capacity		1k	VA	2k'	VA	3k	VA				
Phase			;	Single Phase in,	Single Phase ou	ıt					
Input voltage			110Vac-288Vac								
		100% load@>176Vac; 80% load@>154Vac; 70% load@>132Vac; 50% load@>110Vac									
Input PF				≥0.	97						
Input frequency				40Hz ~	- 70Hz						
Output PF	I			0.	9						
Output FF	II			0.	8						
Output voltage				220V/23	0V/240V						
Voltage regulation				± 1	%						
THDu			≤2%(linear)								
TTIDU		≤5.5%(nd	non-linear) ≤5%(non-linear)			≤5%(noi	≤5%(non-linear)				
Crest factor		3:1									
Efficiency		87.	87.0% 91.0%			90.0%					
Noise			②<70%Load, <45dB@<70%Load, <45dB@<70%Load, 250dB@>70%Load <50dB@>70%Load								
Overload capability		Inverter	Inverter 105% ~ 130%: to bypass after 1 min; 150%: to bypass after 30 sec								
Overload capability		Battery	105% ~ 130%: shut down after 10 sec; 150%: shut down after 5 sec								
Battery voltage	I	36	√dc	72\	/dc	96Vdc					
Dattery Voltage	II	24\	√dc	48\	/dc	72\	/dc				
Battery type/numbe	1	12V, 7Ah*3	External	12V, 7Ah*6	External	12V, 7Ah*8	External				
battery type/numbe	II	12V, 7Ah*2	External	12V, 7Ah*4	External	12V, 7Ah*6	External				
Max charging currer	nt	1A	8A	1A	8A	1A	8A				
Interface				RS232	2, EPO						
Optional				USB(B Type), Si	NMP, Dry contac	et					
W*D*H(mm)	1	144*3	53*222	190*37	75*336	190*42	27*336				
TO HAMMIN	II	144*3	53*222	190*37	74*336	190*37	74*336				
Weight(kg)	1	10.5	5	21	8.5	24.5	9.5				
vveigni(kg)	II	10	6	17	11	22	12				





HTC11 Series Tower Online UPS 1-3kVA (220V/230V/240V)

HTC series is an online double-conversion UPS with fully digital control technology. This upgraded new generation of UPS not only has an ultra-high input and output power factor, but also increases the efficiency on the basis of the original 5%. HTC11 with adjustable 12A charger is a perfect choice for PC and other sensitive devices that request longer backup time.





Application

IDC (Internet Data Center), network, servers and workstations, control system, communication system, office, PC etc.

Features

- Wide range of input voltage while input PF>0.99
- Output PF of 1, upgraded overload capability
- Full protection of over-voltage and short-circuit
- Multiple communication interface: RS232, RS485,
 AS400, dry contact, USB and SNMP card

- LCD/LED display, monitoring all the operation status
- Auto fan speed adjustment
- External environment and battery temperature sensor
- 1-12A adjustable charger with more flexibility
- Support Lithium battery

Specification

MODEL		-	HT1101CL	HT1101CS	HT1102CL	HT1102CS	HT1103CL	HT1103CS		
System	Capacity		1k\	1kVA 2kVA 3kVA						
	Phase	Single Phase in, Single Phase out								
					110VAC~	-300VAC				
	Input Volatge	e Range				276VAC~300VA				
Input				110VAC~17	6VAC load decre	ease linearly from	100%~50%			
IIIput	Input Power	Factor			≥0.	99				
	Input Freque	ency		50/60)±5Hz (Default), ±	:3Hz/±10Hz (setta	able)			
	Input Freque	ency Range			40Hz~	70Hz				
	Frequency A				Setta	able				
	OutputVoltag				200/208/220/					
	Voltage Reg				± 1					
	Rate Freque				50/6					
	Frequency R				±0.					
	Output THD:	J		≤2% TH	•	5% THD, non-line	ar load			
	Output PF				(0.0 for 200)/					
Output	0 15 1				(0.9 for 200V					
	Crest Factor				3:					
	Dynamic Re		≤5% (0% - 100% -0%)							
	Dynamic Re		≤40ms (0% - 100% -0%) 102%~110% for 30mins; 110%~125% for 10mins; 125%~150% for 30s							
	Overload	Inverter	'							
	Capability	Battery Bypass	102%~110% for 1min; 110%~125% for 10s; 125%~150% for 5s <130%: long term operation; <150% for 10mins; <180% for 5s							
	DC Voltage	Буразз	36VDC 72VDC 96VDC							
	Number/Typ	e	External	12V, 7Ah*3	External	12V, 7Ah*6	External	12V, 7Ah*8		
Battery	Charging Vo			Settable				,		
,	Max Chargin		1-12A	1A	1-12A	1A	1-12A	1A		
	Battery Cold	Start			Stan	dard				
		Normal Mode	94.5%@1	00% load	95.5%@1	00% load	95.5%@1	00% load		
	Efficiency	ECO Mode	96	%	97	%	97	%		
		Battery Mode	89.5%@1	00% load	91.5%@1	00% load	91.5%@1	00% load		
	Noise (1m a)	wowl	<43dB@<	60%load	<50dB@<	60%load	<50dB@<	60%load		
	Noise (1m av	way)	<47dB@>	∙60%load	<55dB@>	∙60%load	<55dB@>	·60%load		
System	Display				LED+	LCD				
				RS232, i	nput socket (IEC	C14 for 1K, C20 f	or 2-3K)			
	Interface		output s	output socket (2 National standard sockets for 1K, 4 National standard sockets for 2K						
				3 National standard sockets+1 20A connecting terminal for 3K)						
	Optional					Contact, SNMP Ca				
						RJ45 Surge Protec	<i>,</i>			
	W*D*H(mm)	(D. 1	144*354*224	144*354*224	144*410*223	190*405*330	144*410*223	190*405*330		
Physical		(Package size)	240*448*320	240*448*320	240*510*320	285*520*406	240*510*320	285*520*406		
	Net Weight (4.3	10.3	5.8	21.1	6.2	25.5		
	Gross Weight (kg)		5.6	11.6	7.1	23	7.5	27.5		





HR11 Series Rack Online UPS

1-10kVA (220V/230V/240V)

HR11 series, ranging from 1kVA to 10kVA, is double conversion online rack UPS with fully DSP controlled technology. The single phase of 6-10kVA UPS applies the advanced 3-level technology, achieving efficiency up to 95%. With its compact design of high power density (kW=kVA) in 2U height, HR11 series makes it an ideal choice for computers, telecommunication equipment and other sensitive devices.





Application

IDC(Internet Data Center), network, servers and workstations, control system, communication system, office, PC etc

Features

Common features for 1-10kVA

- Wide range of input voltage while input PF>99%
- 19" standard cabinet and battery cabinet
- Full protection of overvoltage, circuit short and over temperature
- LCD/LED display, monitoring all the operation status
- Automatic fan speed adjustment
- Abundant interface: RS232, USB, SNMP, Intelligent Card

Unique features for 6-10kVA

- High efficiency, up to 95%
- kVA=kW, output PF=1
- Intelligent charging management, effectively improving the life time of battery
- 3 level of technology, compatible with complicated load

Specification

MODEL	HR1101S	HR1102S	HR1103S	HR1106XS	HR1110XS		
MODEL	HR1101L	HR1102L	HR1103L	HR1106XL	HR1110XL		
Capacity	1kVA	2kVA	3kVA	6kVA	10kVA		
			110Vac-288Vac				
Input voltage range)>176Vac; 80% loa >132Vac; 50% load		_	100% load@ > 176Vac; 90% load@ > 160Vac 80% load@ > 140Vac; 60% load@ > 110Vac		
Input frequency			40-70Hz				
Input PF		≥0.97		≥0	.99		
Voltage regulation			±1 %				
Output frequency			50/60Hz				
Output PF		0.9		1.	.0		
Overload capability (Inverter mode)	105% 150%	%-130%: to bypass % 6: to bypass after 30	1 min;) sec	110%:for 10 min;125%:for 1min ; 150%: for 30 sec			
Overload capability (Battery mode)	110%: shut down after 10 sec; 130%: shut down after 150%: shutdown after 5 sec >130%: shut down after						
Crest factor			3:1				
Efficiency	87%	91%	90%	95	5%		
Display			LED+LCD				
Battery voltage	36Vdc	72Vdc	96Vdc	192	Vdc		
Battery type/number	12V,7Ah*3	12V,7Ah*6	12V,7Ah*8	12V,7Ah*16	12V,9Ah*16		
battery type/number			External				
Interface			RS232, EPO				
Optional	US	B, SNMP, Dry conta	acts	USB, SNMP,	Dry contacts		
Operation temperature	0-40°C						
Relative humidity	0-95% (non-condensing)						
W*D*H(mm)	440*430*86	440*480*173	440*480*173	440*660*173			
VV D H(IIIIII)	440*430*86	440*480*86	440*480*86	440*	550*86		
Weight(kg)	11.5	25	31	59	67		
vveignt(kg)	7	8	9.5	17.5	20.5		





Rack battery cabinet

Rack battery cabinet is special designed for IDC solution, compatible with 19" standard rack cabinet, online maintenance and convenient to be integrated into servers system.

Each battery package can install 40pcs 7 or 9Ah batteries, and connecting multiple packages in parallel to get longer backup time.

Solution

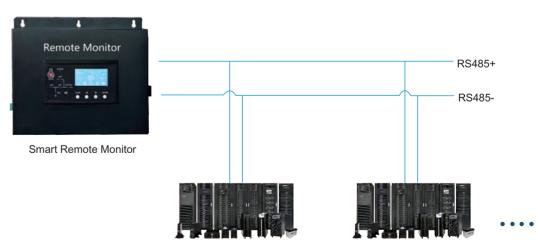


Smart Remote Monitor

Smart Remote Monitor has been specifically designed to provide detailed information of the running UPS over a long distance, which is suitable to be used in data center, IDC, monitor and control room and other applications. The Smart Remote Monitor displays and monitors the parameters and status of the UPS in real time, ensuring the safe running of the UPS system.

Solution





UPS to be monitored





Smart Charging Module

Smart charging module is designed for large current charging application where long back up time is required. There are 2 kinds of charging module, 15Amp and 50Amp. 15Amp current charging module is compatible with 10/15kVA power module based RM series 10-90kVA and can provide additional maximum current of 15Amp*N; 50Amp current charging module is compatible with 30kVA power module based RM series 25-600kVA and modular-designed HT33 series 60-120kVA and can provide additional maximum current of 50Amp*N.

Features

Modular and hot-swappable design

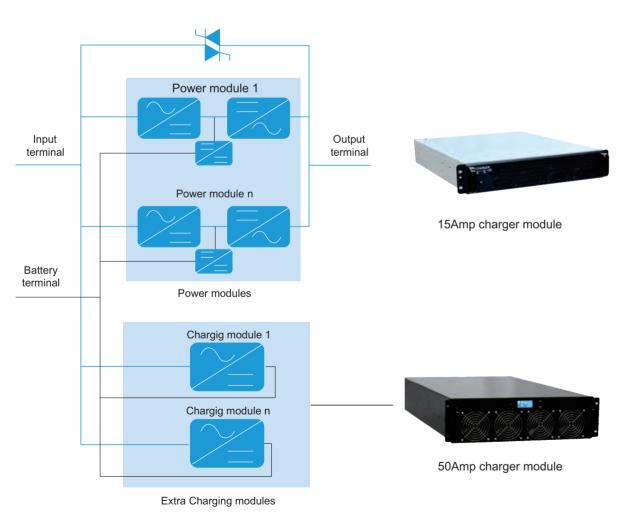
Modular and hot-swappable design, the same size and outlook as power module

Large charging current

Each charging module can provide a maximum current of 15Amp (Or 50Amp) and charging current can be set from 0-15Amp (Or 0-50Amp) on site

Compatibility

Compatible with 15kVA (Or 30kVA) power modules, easy for the UPS to expand charging capacity

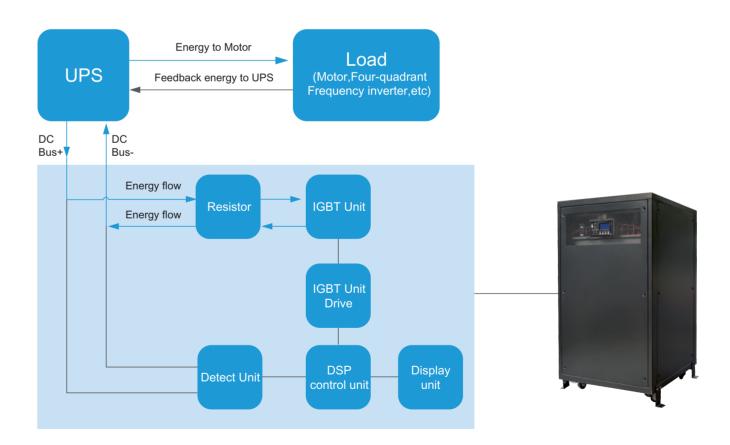


Energy Absorbing Unit

The intelligent Back-feed Absorbing Unit (BAU) is designed to cooperate with the UPS for industrial applications, where the energy is feeding back to the UPS from load. BAU provides an excellent solution for these cases.

Application

Motor braking current(A)	60	90	150	300
UPS type	RM120/30X	RM180/30X	RM300/30X	RM600/30X
RM/BAU		RM/BAU200		2xRM/BAU200
Max feedback energy that can be absorbed	80kW	120kW	200kW	2x120kW







24A External Charger

24A External Charger is designed for large current charging application where long back up time is required. It applies to HT1106XL, HT1110XL and HTX31 series UPS.

It is the same appearance and size as HT1106XL. The charging current range is from 1A to 24A, and it can be set on LCD.

This Charger includes several communication ports: RS232, EPO, USB.

Solution



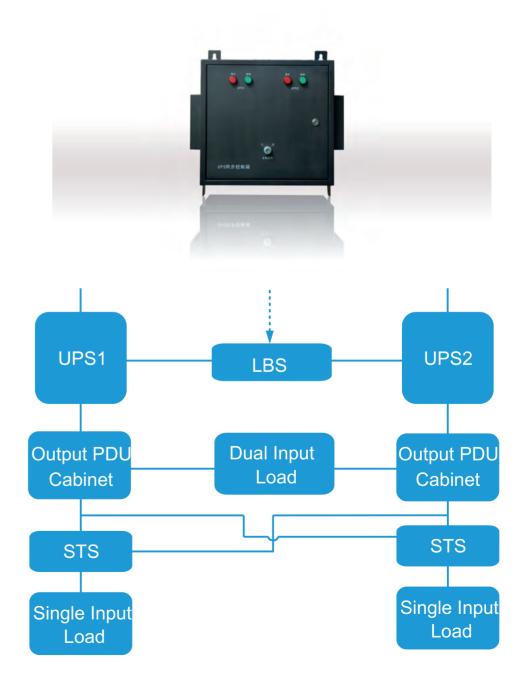
HTX31 Series

Load Bus Synchronization

Load Bus Synchronization (LBS) is designed to improve the redundancy and reliability for N+1 redundant system. In normal situation, UPS1 and UPS2 work equally with its own load, when one UPS goes failure, the system transfer to another UPS without interruption. And the LBS is used to synchronize the output phase of two UPS.

LBS is applied in three mode: LBS mode, parallel LBS mode and slave LBS mode.

Solution







Battery Cabinet

The battery cabinet is made of cold rolled steel or galvanization plates of high mechanical performance and bearing capacity. The compact structure with electrostatic spraying makes the cabinet more wear-resistant, corrosion-resistant and fireproofing.

The cabinet is designed as assembly type which is convenient for transportation. All these guarantee the reliability and safety for the UPS.



Specification

Model	Colour	Materials	Weight	Layer	Size(mm)	QTY of Battery
C1A	Computer grey and black	Steel plates or galvanized plates	4.5kg	1	525*210*225	17AH, 6PCS;24AH, 4PCS; 38AH 3PCS;
C3	Computer grey or black	Steel plates or galvanized plates	9kg	1	585*470*335	17AH,14PCS;24AH,6PCS; 38AH,6PCS; 65AH, 3PCS; 100AH 3PCS;
C6	Computer grey or black	Steel plates or galvanized plates	16kg	2	585*470*615	17AH ,28PCS;24AH, 12PCS; 38AH, 12PCS; 65AH, 6PCS; 100AH 6PCS;
C8	Computer grey or black	Steel plates or galvanized plates	21kg	2	780*470*615	17AH 36PCS;24AH, 16PCS; 38AH, 16PCS;65AH,8PCS; 100AH, 8PCS;
C12	Computer grey or black	Battery terminal	32kg	4	780*470*910	24AH,24PCS;38AH,24PCS 65AH,12PCS;100AH,12PCS;
C16	Computer grey or black	Steel plates or galvanized plates	44kg	4	780*470*1190	24AH,32PCS;38AH,32PCS; 65AH,16PCS;100AH,16PCS;
C20	Computer grey or black	Steel plates or galvanized plates	50kg	4	950*470*1190	24AH,40PCS;38AH,40PCS; 65AH,20PCS;100AH,20PCS;
C40-100	Computer grey or black	Steel plates or galvanized plates	95kg	4*2	950*880*1190	65AH,40PCS; 100AH,40PCS;
C40-120	Computer grey or black	Steel plates or galvanized plates	120kg	4*2	1000*880*1475	120AH,40PCS;
G40-150	Computer grey or black	Steel plates or galvanized plates	150kg	4*2	1100*1170*1480	150AH,40PCS;
G40-200	Computer grey or black	Steel plates or galvanized plates	200kg	3*2	1900*1270*1260	200AH,40PCS;

MF Series Sealed Lead Acid Battery 2V/6V/12V (4AH-3000AH)

- Long life expectancy
- Maintenance free
- Low self discharging
- High reliability



Specification

				Dimensio	on(±1mm)		Weight±5%
Model	RatedVoltage(V)	Capacity(Ah)	Length	Width	Height	Total Height	len
			mm	mm	mm	mm	kg
MF4-12	12	4	91	71	102	108	1.4
MF7-12	12	7	151	65	94	100	2.15
MF9-12	12	9	151	65	96	100	2.5
MF12-12	12	12	151	98	95	101	3.4
MF17-12	12	17	181	77	167	171	5.2
MF24-12	12	24	166	175	125	129	7.6
MF38-12	12	38	197	165	170	170	12.4
MF65-12	12	65	350	167	179	179	19.6
MF100-12	12	100	328	171	214	220	30.5
MF120-12	12	120	410	176	227	227	33.5
MF150-12	12	150	482	170	242	242	44.5
MF200-12	12	200	522	238	218	222	60
MF250-12	12	250	520	269	220	224	69.5
MF4-6	6	4	70	47	101	107	0.65
MF7-6	6	7	151	34	94	100	1.08
MF9-6	6	9	98	56	117	117	1.35
MF12-6	6	12	151	50	94	100	1.7
MF100-6	6	100	195	170	207	213	16.5
MF150-6	6	150	260	180	247	251	23.5
MF200-6	6	200	250	125	362	366	31
MF300-6	6	300	295	178	345	350	47
MF100-2	2	100	171	72	206	211	6.3
MF150-2	2	150	172	102	205	227	8.1
MF200-2	2	200	177	88	371	377	13.5
MF300-2	2	300	177	118	371	377	18.5
MF400-2	2	400	177	148	371	377	24
MF500-2	2	500	177	187	371	377	30
MF600-2	2	600	218	178	371	377	36
MF800-2	2	800	290	180	371	378	48
MF1000-2	2	1000	368	180	371	378	59
MF1500-2	2	1500	590	189	380	385	89
MF2000-2	2	2000	361	412	380	385	119
MF3000-2	2	3000	590	361	380	385	179