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INVT Power System

Power Solution Specialist











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 are being dedicated to providing high quality products and service to global customers. So far, we have gained more than 600 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.

Warmly welcome to be our distributor and partner.

Meanwhile, we can provide OEM and ODM production
and service for the clients all around the world.



Shenzhen 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
- 900 Intellectual Property Right,30% more than average level





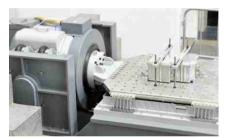








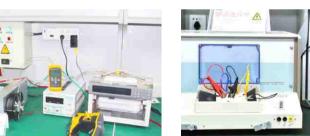
- TUV Witness Qualification LAB
- UL Witness Qualifications LAB



Mechanical Test Lab



Thermal Test Lab





EMC Lab



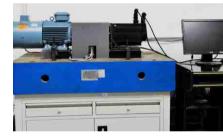
Lightning Strike Test Lab



Components Test Lab



Heat Shock Lab



Performance Test Lab



Environmental Test Lab



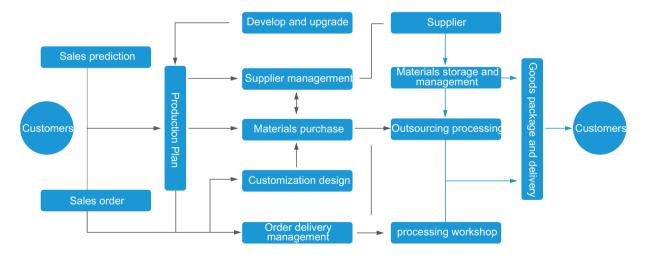




Production Management System

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 standardizes 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.





A state-level Hi-tech enterprise

National outstanding energy-saving enterprise

Famous brand of Guangdong province

Top 100 independent innovation enterprise

Top 10 China customer satisfaction brand

Procurement finalists brand by central governments









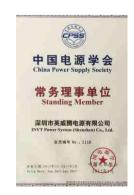
















Quality Assurance

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



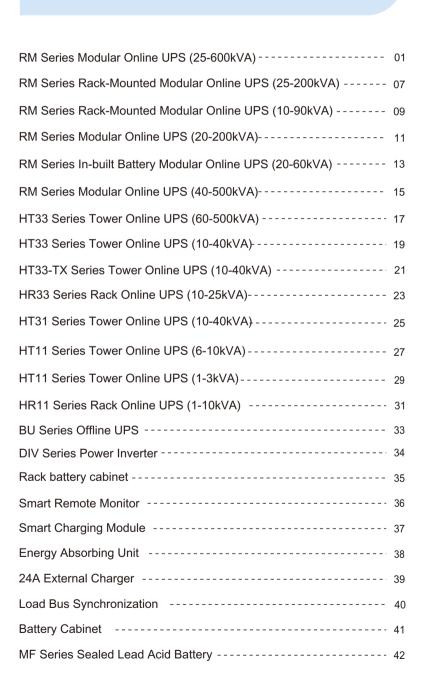








Contents







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

The RM series modular UPS provides the most compact footprint of less than 2m² with maximum capacity of 900kVA.With 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, gives users' direct overview of status data and alarms in real time.

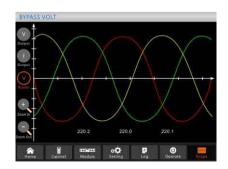




Friendly Interface

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



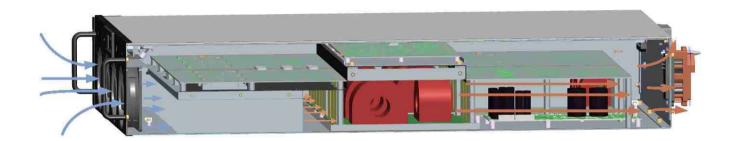




Isolated Air Flow

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.

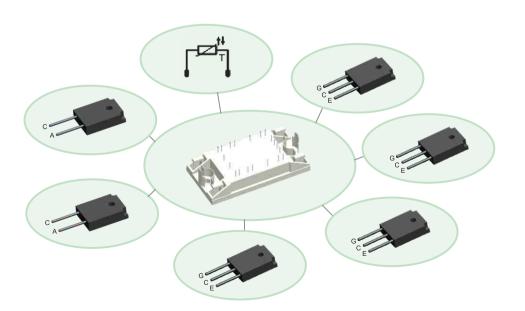
- Cooling air flows in the lower layer, keeping the upper PCB free of dust
- One air flow channel ensures fans redundancy, even one fan fails, power module can run normally



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







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

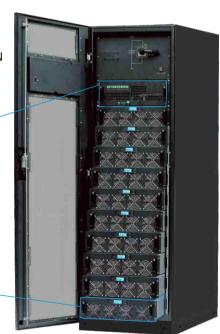
- Inherently N+X redundant
- Hot swappable power module and bypass & monitoring module
- Additional charging module, extra charging current 50A×N for long time back up application



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.

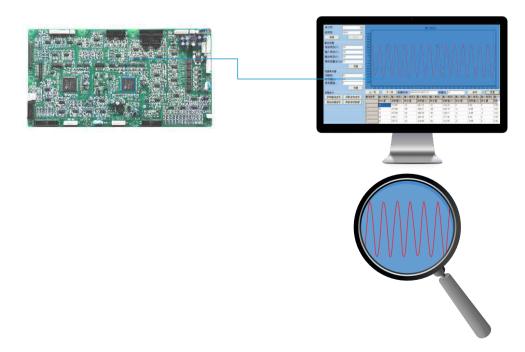
- Maintenance reminder, running time of capacitors and fans displayed and recorded
- Comprehensive temperature monitoring for thermal abnormal detection
- Intelligent battery charger for long battery life



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



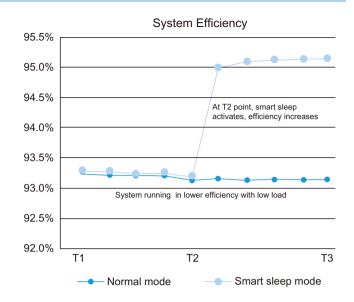




Smart Sleep

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.

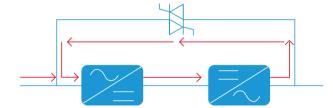
- Improving efficiency ,reducing power and cooling costs
- Easy setting with just two steps. Customers can select sleep mode and rotation period
- Power modules working in rotation, prolong the life time



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.

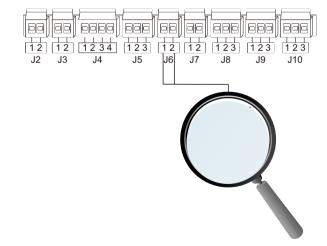
- Simulate different load conditions without connecting to any real load, saving 90% of energy
- On site setting supported, easy for factory testing



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 (Canacity		600kVA	300kVA	180kVA	500kVA	250kVA	150kVA		
•	lodule Capaci	tv	0001(7)(30kVA/30kW	1001(17)	OOORVI	25kVA/25kW	1001(1/1		
1 01101 111	Dual Input	-9	Optional							
	Phase		3 Phase+Neutral+Ground, 380V/400V/415V(line-line)							
	Input Voltag	e Range	304~478Vac (line-line),full load; 228V~304Vac (line-line),load decreases linearly according to the min phase voltage							
Input	Rate Freque	ency	50/60Hz							
	Input Freque		40Hz ~ 70Hz							
	Input PF	, g-	>0.99							
	Input THDi				<3% (100%	Linear load)				
	Rate Voltage	ie			•	/ac (line-line)				
	Rate Frequ					OHz ´				
Bypass	Input Voltag	-			Settable, -4	10% ~ +25%				
		quency Range			•	z, ±3Hz, ±5Hz				
	Bypass Ov		1.	10% long term				nin		
	Rate Voltage				380/400/415\	/ac (line-line)				
	Voltage Re			1% for bala		% for unbalan				
	Rate Frequ		50/60Hz							
0	Frequency			0.1%						
Output	Output PF					1				
	Output THE	Du		<1% , l	inear load; <	5.5%, Non-line	ar load			
	Crest Facto	or			3	:1				
	Inverter Ov	erload	110% fo	or 1 hour; 125°	% for 10 mins	;150% for 1 m	nin; >150% for	200 ms		
	Voltage				±24	0Vdc				
	Battery Nu	mber	40pcs (Settable: even number from 32 to 44)							
Battery	Voltage Pr		±1%							
	Charge Po	wer	up to 20% * Output active power							
	Battery Co		Standard							
		AC Mode	95.0%							
	Efficiency	ECO Mode			99.	0%				
		Battery Mode			95.	0%				
	Display			10.4" colo	r touch screer	LCD + LED +	- keyboard			
	IP Class		IP 20							
System	Interface		RS232,RS485, Programmable Dry Contact, USB							
System	Option		SNMP C	ard, Parallel ki	t, SPD, LBS,E	Oust filter, Exp	ansion dry cor	ntact card		
	Temperatur	re		Operat	ion: 0 ~ 40 °C	Storge: -40	~70 °C			
	Relative Hu	midity			0~95% Non-	condensing				
	Altitude		<1000m	Within 1000m	to 2000m, 19	% power derat	ing for every 1	00m rise		
	Noise (1 me	eter)	72dB@100%load 65dB@45%load	_	00%load 15%load	72dB@100%load 65dB@45%load	_	00%load 45%load		
	Applicable S	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	vvoignit (kg)	Power module		32.3			32.3			
Tiyoloal	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			510*70	00*178				





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, it's 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.



RM150-25C (6 slots)



RM200-25C (8 slots)

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 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

MODEL			RM150/25C	RM200/25C			
System (Capacity		150kVA	200kVA			
Power M	odule Capac	city	25kVA	//25kW			
	Dual Input		Optional	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				
Input	Rate Frequ	iency	50/60Hz				
	Input Frequency Range		40Hz ~ 70Hz				
	Input PF		>0.99				
	Input THD	i	<3% (100%	Linear load)			
	Rate Volta	ige	380/400/415\	/ac (line-line)			
	Rate Freq	uency		60Hz			
Bypass	Input Volta	age Range		40% ~ +25%			
	Bypass Fr	equency Range	Settable, ±1H:	· · · ·			
	Bypass Ov	verload		5 mins ;150% for 1 min; >150% for 1s			
	Rate Volta	•		/ac (line-line)			
	Voltage Re	ŭ.	±1(0~100% linear load) 50/60Hz				
	Rate Frequency						
Output	Frequency Precision Output PF		0.	1%			
	Output THDu		z10/ Lincor loods	1 c60/ Non linear load			
	Crest Factor			<6%, Non-linear load			
				:1			
	Inverter Overload			;150% for 1 min; >150% for 200 ms			
	Voltage	ımhor	$\pm 240 extsf{Vdc}$ 40pcs (Settable: even number from 32 to 44)				
Battery	Battery No		±1%				
Battery	Voltage Po		up to 20% * Output active power				
	Battery Co			ndard			
	Dattery Ct	AC Mode		0%			
	Efficiency	ECO Mode		0%			
	,	Battery Mode		5%			
	Display	Dationy Middle		LCD + LED + keyboard			
	IP Class			20			
	Interface			rammable Dry Contact			
System	Option		PDU for RM150/25C,SNMP	Card, Parallel kit,SPD, LBS			
	Temperatu	ıre	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	neter)	65dB @ 100% load	I, 62dB @ 45% load			
	Applicable	Standards		62040-2 Performance: IEC/EN 62040-3			
	Maiabt /I	Cabinet	140	160			
Physical	Weight (kg	Power module	1	8			
Tilysical	Dimension	Cabinet	482*916*931	482*916*1550			
	W*D*H(mn	n) Power module	436*6	77*85			





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

The rack modular, scalable, hot-swappable, online double conversion UPS ranging is 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

System Capacity
Dual Input Phase 3 Phase+Neutral+Ground, 380V/400V/415V(line-line) Input Voltage Range Rate Frequency Input Frequency Range Input PF Input THDi Rate Voltage Rate Voltage Rate Frequency Rate Frequency SolfoHz Input THDi SolfoHz
Phase 3 Phase+Neutral+Ground, 380V/400V/415V(line-line) Input Voltage Range 304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min phase voltage Rate Frequency 50/60Hz Input Frequency Range 40Hz ~ 70Hz Input PF >0.99 Input THDi <4% (100% Linear load) Rate Voltage Rate Frequency 50/60Hz Bypass Frequency Settable, -40% ~ +25% Bypass Frequency Range Settable, ±1Hz, ±3Hz, ±5Hz
Input Voltage Range Rate Frequency Input Frequency Range Input PF Input THDi Rate Voltage Rate Voltage Rate Voltage Rate Frequency Input THDi Rate Frequency Input THDi Rate Voltage Rate Frequency SolfoHz SolfoH
Input Voltage Range 228V~304Vac (line-line),load decreases linearly according to the min phase voltage Rate Frequency Input Frequency Range Input PF Input THDi Rate Voltage Rate Voltage Rate Frequency Input Voltage Range Settable, -40% ~ +25% Bypass Frequency Range 125% long term operation: 130% for 10mins: 110% long term operation: 130% for 5min
Rate Frequency Input Frequency Range Input PF Input THDi Rate Voltage Rate Voltage Rate Frequency Input Voltage Range Settable, -40% ~ +25% Bypass Frequency Range Settable, ±1Hz, ±3Hz, ±5Hz
Input PF Input THDi Square (100% Linear load) Rate Voltage Rate Frequency Square Settable, -40% ~ +25% Bypass Frequency Range Settable, ±1Hz, ±3Hz, ±5Hz
Input THDi Rate Voltage Rate Frequency Input Voltage Range Bypass Frequency Range Settable, -40% ~ +25% Settable, ±1Hz, ±3Hz, ±5Hz
Rate Voltage Rate Frequency Input Voltage Range Bypass Frequency Range Settable, -40% ~ +25% Bypass Frequency Range 125% long term operation: 130% for 10mins: 110% long term operation: 130% for 5min
Rate Frequency Input Voltage Range Settable, -40% ~ +25% Bypass Frequency Range Settable, ±1Hz, ±3Hz, ±5Hz
Bypass Input Voltage Range Bypass Frequency Range Settable, -40% ~ +25% Settable, ±1Hz, ±3Hz, ±5Hz 125% long term operation: 130% for 10mins: 110% long term operation: 130% for 5min
Bypass Frequency Range Settable, ±1Hz, ±3Hz, ±5Hz 125% long term operation: 130% for 10mins: 110% long term operation: 130% for 5min
125% long term operation: 130% for 10mins: 110% long term operation: 130% for 5min
Pyroca Overload 125% long term operation; 130% for 10mins; 110% long term operation; 130% for 5min
Bypass Overload 150% for 1 min; >150% for 300ms 150% for 1 min; >150% for 300ms
Rate Voltage 380/400/415Vac (line-line)
Voltage Regulation 1% for balance load; 1.5% for unbalance load
Rate Frequency 50/60Hz
Output Frequency Precision 0.1%
Output PF 1
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 ±240Vdc
Battery Number 40pcs (Settable: even number from 32 to 44)
Battery Voltage Precision ±1% Charge Power up to 20% * Output active power
25.00
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
Interface RS232,RS485, Programmable Dry Contact
System Option SNMP Card, Parallel kit, SPD, Power module with battery cold start function
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) 56dB @ 50% load
Applicable Standards Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040
Cabinet 70 51 42 70 55 42
Weight (kg) Power module 15.3 15.5
Physical Dimension Cabinet 485*751*1033 485*697*575 485*697*398 485*751*1033 485*751*575 485*697*398
W*D*H(mm) Power module 436*590*85





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

200 kVA with footprints of about $0.5 \, \text{m}^{2}$,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 Capaci	ту		20kVA/18kW				
	Dual Input		Optional					
	Phase		3 Phase+Ne	utral+Ground, 380V/400V/4	15V(line-line)			
Innut	Input Voltag	e Range	304~478Vac (line-line),full load; 228V~304Vac (line-line),load decreases linearly according to the min phase voltage					
Input	Rate Freque	ency	50/60Hz					
	Input Freque	ency Range	40Hz ~ 70Hz					
	Input PF		>0.99					
	Input THDi			<3% (100% Linear load)				
	Rate Voltag	e		380/400/415Vac (line-line)				
	Rate Frequency			50/60Hz				
Bypass	Input Voltage Range			Settable, -40% ~ +25%				
	Bypass Frequency Range			Settable, ±1Hz, ±3Hz, ±5Hz				
	Bypass Ove	erload	125% long term operation	; 130% for 1 hour ;150% for	6 mins; 1000% for 100ms			
	Rate Voltag	e		380/400/415Vac (line-line)				
	Voltage Regulation		1% for balance load; 1.5% for unbalance load					
	Rate Frequ	-	50/60Hz					
Output	Frequency	Precision		0.1%				
•	Output PF			0.9				
	Output THE		<1% , I	Linear load; <5.5%, Non-line	ear load			
	Crest Facto			3:1				
	Inverter Ov	erload	110% for 1 hour; 125	% for 10 mins ;150% for 1 m	in; >150% for 200 ms			
	Voltage		$\pm 240 \text{Vdc}$					
5	Battery Nu		40pcs (Settable: even number from 32 to 44)					
Battery	Voltage Pre		±1%					
	Charge Po		up to 20% * Output active power					
	Battery Col			Standard				
	Efficiency	AC Mode		95.0%				
	Efficiency	ECO Mode		99.0%				
	Disales	Battery Mode	5.7" to	95.0% uch screen LCD + LED + ke	whoard			
	Display		5.7 to		yboard			
	IP Class		RS232 RS	IP 20 485, Programmable Dry Co	ntact			
System	Interface			P Card, Parallel kit, SPD, LB				
	Option	•		ion: 0 ~ 40 °C Storge: -40				
	Temperatur Relative Hu		Operat	0~95% Non-condensing	~ 10 C			
	Altitude	iniaity	<1000m Within 1000n	n to 2000m, 1% power derat	ing for every 100m rise			
	Noise (1 me	eter)	TOOOTII. VVIIIIIII TOOOTI	55dB @ 50% load	ing for every routh had			
	Applicable S		Safety: IEC/EN 62040.1	EMC: IEC/EN 62040-2 Perf	ormance: IEC/EN 62040-3			
	, ipplicable c	Cabinet	180	150	105			
	Weight (kg)	Power module	100	22	100			
Physical	Dimension	Cabinet	600*900*2000	600*900*1600	600*900*1100			
		Power module	000 000 2000	440*590*134	000 000 1100			
	,	. Onor modulo		110 000 10-				





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

RM060/20B series are 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 realises a compact total power solution which is easy for installation, maintenance and power expansion.

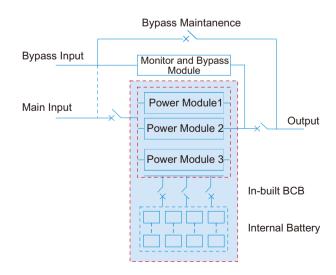


Features

- Modular design with swappable battery package
- Monitor 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				
Power M	lodule Capac	city	20kVA/18kW				
	Dual Input		Optional				
	Phase		3 Phase+Neutral+Ground, 380V/400V/415V(line-line)				
lanci.	Input Voltage 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	ige	380/400/415Vac (line-line)				
	Rate Freq	uency	50/60Hz				
Bypass	Input Voltage Range		Settable, -40% ~ +25%				
	Bypass Fr	equency Range	Settable, ±1Hz, ±3Hz, ±5Hz				
	Bypass Overload		125% long term operation; 130% for 1 hour ;150% for 6 mins; 1000% for 100ms				
	Rate Voltage		380/400/415Vac (line-line)				
	Voltage R	egulation	1% for balance load; 1.5% for unbalance load				
Output	Rate Frequency		50/60Hz				
	Frequency Precision		0.1%				
	Output PF		0.9				
	Output TH		<1% , Linear load; <5.5%, Non-linear load				
	Crest Fact		3:1				
	Inverter Overload		110% for 1 hour; 125% for 10 mins ;150% for 1 min; >150% for 200 ms				
	Voltage		$\pm 240 \text{Vdc}$				
D 11	Battery No		40pcs (Settable: even number from 32 to 44)				
Battery	Voltage P		±1% up to 20% * Output active power				
	Charge Po						
	Battery Co		Standard				
	Efficiency	AC Mode	95.0% 99.0%				
	Liliciency	ECO Mode	95.0%				
	Display	Battery Mode	5.7" touch screen LCD + LED + keyboard				
	IP Class		IP 20				
	Interface		RS232,RS485, Programmable Dry Contact				
System	Option		SNMP Card, Parallel kit, SPD, LBS, Dust filter				
	Temperatu	ıre	Operation: 0 ~ 40 °C Storge: -40 ~ 70 °C				
	Relative H		0 ~ 95% Non-condensing				
	Altitude	arrialty	<1000m. Within 1000m to 2000m, 1% power derating for every 100m rise				
	Noise (1 m	neter)	55dB @ 50% load				
	`	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)				
Di		Cabinet	600*1020*2000				
Physical	Dimension W*D*H(mn	D 1.1	440*590*134				
	א ט ח(ווווו	Battery package	120*824*177				
		7	120 021 111				





RM Series Modular Online UPS 40-500kVA (380V/400V/415V)

The RM series modular, online UPS ranging from 40kVA to 500kVA is designed to protect any critical load for medium and large data center achieving maximum availability. The RM series feature 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 500kVA 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

500kVA in one cabinet, footprint less than 1.45m², saving valuable room space

High power density 50kVA power module in 4 U 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 500kVA 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

MODEL			RM500/50X	RM300/50X	RM200/50X	RM100/50X	RM400/40X	RM240/40X	RM160/40X	RM80/40X	
System (Capacity		500kVA	300kVA	200kVA	100kVA	400kVA	240kVA	160kVA	80kVA	
Power M	odule Capacity			50kVA	/50kW			40kVA	/40kW		
	Dual Input		Standard	Optional		Standard		Optional	Stan	dard	
	Phase			3 Pha	ise+Neutra	al+Ground,	380V/400	V/415V(line	e-line)		
Input	Input Voltage	Range	304~478Vac (line-line),full load; 228V~304Vac (line-line),load decreases linearly according to the min phase voltage								
прас	Rate Frequer	ncy	50/60Hz								
	Input Frequer	ncy Range	40Hz ~ 70Hz								
	Input PF		>0.99								
	Input THDi		<3% (100% Linear load)								
	Rate Voltage	•			38	0/400/415\	/ac (line-li	ine)			
	Rate Freque	ncy					60Hz				
_	Input Voltage	Range			5	Settable, -4	10% ~ +25	%			
Bypass	Bypass Freq	uency Range			Set	table, ±1H	z, ±3Hz, ±	5Hz			
	Bypass Overload		130% fo	r 5 mins or 1min	130% fo 150% f	erm operation r 10 mins or 1 min or 300ms	125% fo 150% f	erm operation or 5 mins or 1 min 6 for 1s	125% long te 130% for 150% fo >150% fo	10 mins or 1 min	
	Rate Voltage	•	380/400/415Vac (line-line)								
	Voltage Regi	ulation	1% for balance load; 1.5% for unbalance load								
	Rate Freque	ncy				50/6	60Hz				
Output	Frequency P	recision				0.	1%				
2 3 4 5 3 3	Output PF						1				
	Output THDu	J			<1% , Line	ear load; <	5.5%, Non-	-linear load			
	Crest Factor					_	:1				
	Inverter Over	rload	110% for 1 hour; 125% for 10 mins ;150% for 1 min; >150% for 200 ms								
	Voltage		±240Vdc								
5.4	Battery Num		40pcs (Settable: even number from 32 to 44)								
Battery	Voltage Pred		±1%								
	Charge Pow		up to 20% * Output active power								
	Battery Cold	Start	Star	idard		ional		ndard	Opti	onal	
	Efficiency		AC Mode: 95.0% ECO Mode: 99.0% Battery Mode: 95.0% 10.4"(240kVA-500kVA) or 7"(80kVA-200kVA) touch screen LCD + LED + keyboard								
	Display		10.4"(240	KVA-500K\	/A) or / (8		•	screen LC	,D + LED +	keyboard	
	IP Class		IP 20								
System	Interface		RS232,RS485, Programmable Dry Contact, USB SNMP Card, Parallel kit, SPD, LBS, Dust filter								
	Option										
	Temperature							-40 ~ 70 °C			
	Relative Hum	nidity	:400	0 \\\"\"		95% Non-		_	400		
	Altitude	or)	<100	um. Within			-		every 100n	n rise	
	Noise (1 mete	-	Oct-1			100% load			- IFO/FN	00040	
	Applicable St								e: IEC/EN		
	Weight (kg)	Cabinet Pawar medula	450	220	170	120	450	220	170	120	
Dhysical		Power module			.5			4			
Physical	Dimension W*D*H(mm)	Cabinet	1300*1100 *2000	650*1095 *2000	650*960 *1600	600*980 *1150	1300*1100 *2000	650*1095 *2000	650*960 *1600	600*980 *1150	
	()	Power module				510*7	00*178				





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 (Capacity		60kVA	80kVA	90kVA	100kVA	120kVA	150kVA	200kVA	250kVA	300kVA	400kVA	500kVA
	Dual Input					Standar	·d			Opti	ional	Star	ndard
	Phase				3 Phas	e+Neut	ral+Gro	und, 38	0V/400\	V/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 Frequ	uency Range	40Hz ~ 70Hz										
	Input PF		>0.99										
	Input THD	i	<3% (100% Linear load)										
	Rate Volta						80/400/4						
	Rate Frequency							50/60H	Z				
		age Range					Settable	e, -40%	% ~ +25°	%			
Bypass	Bypass Frequency Range					Se	ettable, :	±1Hz, ±	3Hz, ±5	5Hz			
Бурасс	= , pass : . squarroy : tarigo				125% k	ong term)% long	term one	ration
	Bypass Overload				130 15	% for 10 0% for 1 0% for 3	mins min	'			125% t 150%	for 5 min for 1 mir % for 1s	s
	Rate Volta	age				38	80/400/4	15Vac	(line-lin	ie)			
	Voltage Regulation		1% for balance load; 1.5% for unbalance load										
	Rate Freq	uency						50/60H	Z				
0 1 1	Frequency	y Precision						0.1%					
Output	Output PF							1					
	Output TH	lDu			<	1% , Lir	near loa	d; <5.5 ⁹	%, Non-	linear lo	ad		
	Crest Fact	tor	3:1										
	Inverter O	verload	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		±1%										
,	Charge P		up to 20% * Output active power										
	Battery Co					Optiona					Star	ndard	
	Dattery O		95%	96%	95%	96%				Q	6%	idara	
	Efficiency	AC Mode ECO Mode	33 /0	30 /0	33 /0	30 /0	33 /0	99%		3	0 70		
	,	Battery Mode	95%	96%	95%	96%	95%	00,0		Q.	6%		
	Display	Dattery Wode						00k\/A)) touch s		_CD + L	FD + ke	evboard
	IP Class		10.1 (2	101(17)	00011171	, 0, 1 (0	,01(1)(2	IP 20	, 100011	50100111	-05 - 2		y boar a
					RS2'	32,RS48	35 Prog		hla Dry	Contac	t IISB		
System	Interface					MP Card							
	Option												
	Temperatu				C	peratio					C		
	Relative H	lumidity					~ 95%			_			
	Altitude		<1000m. Within 1000m to 2000m, 1% power derating for every 100m rise 65dB @ 100% load, 62dB @ 45% load										
	Noise (1 m					_							
		Standards									nce: IEC		
	Weight (kg	1)	170	210	231	210	266	305	350	445	490	810	900
Physical	Dimension	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	1300*1100 *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 8 units
- Friendly operation interface, high-resolution LCD screen

Specification

MODEL			HT33010XS	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/40	00V/415V(line-line	e)			
Input	Input Volta	ige Range	304~478Vac (line-line),full load; 228V~304Vac (line-line),load decreases linearly according to the min phase voltage							
mpat	Rate Frequ	uency	50/60Hz							
	Input Frequency	uency Range	40Hz ~ 70Hz							
	Input PF			>0.99						
	Input THD	i	<4% (100%	Linear load)		(100% Linear	load)			
	Rate Volta	ŭ		380/	400/415Vac (line	e-line)				
	Rate Freq	uency			50/60Hz					
Bypass	-	age Range			ttable, -40% ~ +2					
		requency Range			ble, ±1Hz, ±3Hz,					
	Bypass Overload					0 mins; 150% for	1 min			
	Rate Volta	~			400/415Vac (line	-				
	Voltage R	_		1% for balance	load; 1.5% for un	ibalance load				
	Rate Freq	-	50/60Hz							
Output		y Precision		4	0.1%	0.9				
	Output Th			1 <10/ Linear	r load; <5.5%, No					
	Output TH			<1%, Linear	3:1	on-inear ioau				
	Inverter O		110% for	1 hour: 125% for		or 1 min; >150%	for 200 ms			
	Voltage	vonoda	1 10 /0 101	1 110di, 12570 10i	±240Vdc	01 1 111111, 7 130 70	101 200 1113			
	Battery N	umher		40pcs (Settab	le: even number	from 32 to 44)				
Battery	Voltage P		±1%							
,	Charge P		up to 20% * Output active power							
	Battery Co		Optional							
		AC Mode		95.	0%		96.0%			
	Efficiency	ECO Mode			98.0%					
		Battery Mode		95.	0%		96.0%			
	Display	·		LC	D + LED + keybo	pard				
	IP Class				IP 20					
Custom	Interface				RS232,RS485					
System	Option		SNI	MP Card, Paralle	l kit, USB, Progra	ammable Dry Cor	ntact			
	Temperatu	ure		Operation: 0	~40 °C Storge	: -40 ~ 70 °C				
	Relative H	lumidity		0~9	5% Non-condens	sing				
	Altitude		<1000m. W	ithin 1000m to 2	000m, 1% power	derating for ever	ry 100m rise			
	Noise (1 m	neter)			55dB @ 50% loa	d				
	Applicable	Standards	Safety: IEC/EN	1 62040-1 EMC:	IEC/EN 62040-2	Performance: II	EC/EN 62040-3			
	Weight (kg	1)	51.5	51.5	89	89	140			
Physical	vvoigiit (Kg		31	31	50	52	61			
TTystoat	Dimension W*D*H (mm)		250*840*715 250*660*530	250*840*715 250*660*530	350*738*1335 250*680*770	350*738*1335 250*680*770	500*840*1400 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
- Parallel up to 8 units
- \bullet 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)						
lmout	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% <3%						
	Rate Volta	age		380/400/415\	/ac (line-line)				
	Rate Freq	uency		50/6	0Hz				
Bypass	Input Voltage Range			Settable, -4	10% ~ +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	age		380/400/415\	/ac (line-line)				
	Voltage Regulation		1% for balance load; 1.5% for unbalance load						
	Rate Freq	uency	50/60Hz						
Output	Frequency Precision			0.1	1%				
Output	Output PF	=		0.	.9				
	Output THDu			<1% , Linear load; <5	5.5%, Non-linear load				
	Crest Factor			3	:1				
	Inverter O	verload	110% for 1 hou	ur; 125% for 10 mins	;150% for 1 min; >15	0% 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% * Out	put active power				
	Battery C	old Start	Optional						
		AC Mode		92.	0%				
	Efficiency	ECO Mode		95.	0%				
		Battery Mode		92.	0%				
	Display			LCD + LED	+ keyboard				
	IP Class			IP	20				
System	Interface			RS232	,RS485				
Oystern	Option		SNMP (Card, Parallel kit, USE	3, Programmable Dry	Contact			
	Temperati	ure		Operation: 0 ~ 40 °C	Storge: -40 ~ 70 °C				
	Relative H	lumidity		0~95% Non-	condensing				
	Altitude		<1000m. Within	1000m to 2000m, 19	% power derating for	every 100m rise			
	Noise (1 n	neter)		55dB @	50% load				
	Applicable	Standards	Safety: IEC/EN 620	040-1 EMC: IEC/EN	62040-2 Performanc	e: IEC/EN 62040-3			
Physical	Weight (kg	3)	200	220	240	300			
rinysical	Dimension	n W*D*H (mm)		350*738*1335		500*840*1400			





HR33 Series Rack Online UPS 10-25kVA (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 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			
System (Capacity		10kVA	15kVA	20kVA	25kVA			
	Dual Input			Stan	dard				
	Phase		3 Phase+Neutral+Ground, 380V/400V/415V(line-line)						
la a d	Input Volta	ge Range	228V~304Vac (line	304~478Vac (lir -line),load decreases li	ne-line),full load; nearly according to the	e min phase voltage			
Input	Rate Frequ	uency		50/6	0Hz				
	Input Frequ	uency Range	40Hz ~ 70Hz						
	Input PF		>0.99						
	Input THD	i	<4% (100% Linear load) <3% (100% Linear load)						
	Rate Volta	ige		380/400/415\	/ac (line-line)				
	Rate Freq	uency		50/6	0Hz				
Bypass	Input Volta	age Range		Settable, -4	10% ~ +25%				
	Bypass Frequency Range			Settable, ±1Hz	z, ±3Hz, ±5Hz				
	Bypass Ov	verload	125% long term	operation; 130% for	10 mins; 150% for 1 r	min, 400% for 1s			
	Rate Volta	ige		380/400/415\	/ac (line-line)				
	Voltage Regulation		1% for balance load; 1.5% for unbalance load						
	Rate Frequency			50/6	0Hz				
Output	Frequency Precision			0.1	1%				
o anpar	Output PF				1				
	Output TH	lDu	<1% , Linear load; <5	5.5%, Non-linear load	<1.5% , Linear load;	<6%, Non-linear load			
	Crest Fact				:1				
	Inverter O	verload	110% for 1 ho	ur; 125% for 10 mins		0% for 200 ms			
	Voltage		$\pm 240 \text{Vdc}$						
	Battery No	umber	40pcs (Settable: even number from 32 to 44)						
Battery	Voltage P	recision		±1					
	Charge Po				put active power				
	Battery Co	old Start		Stan					
	-cc ·	AC Mode	95	5%		.5%			
	Efficiency	ECO Mode	0.4	98		-04			
		Battery Mode	94.			5%			
	Display		LCD + LED + keyboard						
	IP Class			IP		-1			
System	Interface			RS232, RS485, Progr					
	Option			8020CL and HR33025					
	Temperatu			Operation: 0 ~ 40 °C					
	Relative H	umidity	-4000 MULT	0 ~ 95% Non-	<u> </u>	400 :			
	Altitude	notor)	<1000m. Within	1000m to 2000m, 19		every 100m rise			
	Noise (1 m	·	0 ()	65dB @ 100% load		JEO/EN 20010 -			
	Applicable			040-1 EMC: IEC/EN					
Physical	Weight (kg		2			30			
	Dimension	W*D*H (mm)	485*750*130						





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 4 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									
		228Vac~478Vac							
Input voltage range		l@ >305Vac, 90% load@ @ >228Vac, 50% load@		100% load@ >305Vac 90% load@ >266Vac 75% load@ >228Vac					
Input PF		≥0.99							
Input THDi			≤3% (100% Linear load)						
Input frequency range		-70Hz							
Output PF		0.9							
Output voltage	220V/230V/240V								
Voltage regulation	1%								
THDu	<u> </u>	≤1% (full linear load) ≤5% (full non-linear load)							
Battery voltage		±240Vdc							
Battery type/number		Exte	ernal						
0 1 ""	Normal :94.5%;		Normal :95%						
System efficiency	ECO :98%;								
Noise(1 meter away)	<50dB	@<70%load;<58dB@>7	70%load	65dB @ 100%load 62dB @ 45%load					
Overload capability (Inverter mode)	1	110%:for 10 min ; 50%:for 30 sec (shut do	130%:for 1 min ; wn the bypass after 1 mi	n)					
Overload capability (Battery mode)		after 1 min; 130%:shut c 0%: shut down after 200		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 Optional	Standard: RS232, RS485 USB, Dry contacts Optional: SNMP, parallel kit Battery cold start							
W*D*H(mm)	190*485*336	190*485*480	190*485*480	600*980*950					
Weight(kg)	22	33	33	170					





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 a efficiency up to 95%. With its compact design of high power density (kW=kVA), HT11 series make it ideal choice for computers, telecommunication equipment and other sensitive devices.





Application

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

Features 1

- 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 4 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		S	Single phase in,	Single phase ou	ut					
	110Vac~288Vac									
Input voltage range			load@ > 176Vac; oad@ > 140Vac;							
Input THDi	≤4%@100% load; ≤6%@50% load (linear load)									
Input PF		≥0.99								
Input frequency range		40Hz-70Hz								
Output PF	1									
Output voltage	220V/230V/240V									
Voltage regulation	±1%									
THDu		≤2%(linear); ≤5% (non-linear) ≤1%(linear); ≤3% (non-linear)								
Battery voltage	192Vdc									
Battery type/number	12V,7Ah*16	External	12V,9Ah*16	External	External					
System efficiency		Normal mode: 95%								
Noise(1 meter away)			<70%load; >70%load		_	<70%load; >70%load				
Overload capability (Inverter mode)			110%:for 10 min 150%:for		;					
Overload capability (Battery mode)			own after 1 min; 130%: shut dowr		n after 10 sec;					
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*4	85*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 of 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
- In-built output transformer for TX branch

Specification

MODEL	1	HT1101S HT1101S -TX	HT1101L HT1101L -TX	HT1102S HT1102S -TX	HT1102L HT1102L -TX	HT1103S HT1103S -TX	HT1103L HT1103L-TX				
WODEL	П	HT1101S-II	HT1101L-II	HT1102S-II	HT1102L-II	HT1103S-II	HT1103L-II				
Capacity		1k\	/A	2k\	/A	3kVA					
Phase			Single Phase in, Single Phase out								
			110Vac-288Vac								
Input voltage		100% load@>176Vac; 80% load@>154Vac; 70% load@>132Vac; 50% load@>110Vac									
Input PF				≥0.	97						
Input frequency				40Hz ~	· 70Hz						
Output PF	1			0.9 (0.8 for	TX branch)						
Catpatii	П			0.	8						
Output voltage				220V/230	0V/240V						
Voltage regulation				± 1 % (±5% fo	or TX branch)						
THDu			≤2%(linear)								
TTIBG		≤5.5%(no	n-linear)	≤5%(nor	ı-linear)	≤5%(non-linear)					
Crest factor		3:1									
Efficiency		87.0% (80% fe	or TX branch)	91.0% (81% fo	or TX branch)	90.0% (81% for TX branch)					
Noise		<43dB@< <47dB@>		<45dB@< <50dB@>	70%Load, 70%Load	<45dB@< <50dB@>	70%Load, 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					
Battery voltage	II	24\	/dc	48Vdc		72Vdc					
Battery type/numbe	I	12V,7Ah*3	External	12V,7Ah*6	External	12V,7Ah*8	External				
Battery typo/mambo	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,EPO									
Optional			USB(B Type),SNMP, Dry contact								
W*D*H(mm)	1	144*35 144*35		190*375*336 190*427*570		190*427*336 190*427*570					
VV D TI(IIIII)	П	144*35	3*222	190*374*336		190*374*336					
Weight/kg)	I	10.5 25	5 20	21 45	8.5 34	24.5 55	9.5 40				
Weight(kg)	Ш	10	6	17	11	22	12				





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 a efficiency up to 95%. With its compact design of high power density (kW=kVA) in 2U height, HR11 series make it 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	100% load@ 70% load@)>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 6: to bypass after 30	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			
Patton, typo/pumbor	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, ECO kit, Dry contacts, Battery cabinet			
Operation temperature			0-40°C					
Relative humidity		0-	95%(non-condensing)					
\/\/*D*LI/mm\	440*430*86	440*480*173	440*480*173	440*660*173				
W*D*H(mm)	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			





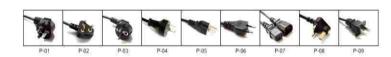
BU Series Offline UPS 600-3000VA

The BU series is offline UPS with the most advanced DSP control technology which can protect the sensitive device from utility fail, over/under voltage, surges, transients, spikes and other electrical abnormalities. With automatic boot voltage regulation and wide input voltage range, BU is a good choice to be applied to all kinds of complex power environment.



Features

- Automatic booting when the utility recovers
- Wide range of input voltage
- Alarm and mute
- Auto recharging
- Overvoltage and circuit short protection
- Interface of RJ45/11 and USB



















Specification

MODEL	BU500	BU600	BU800	BU1000	BU1200	BU1500	BU2000	BU3000	
Capacity	500VA	600VA	800VA	1000VA	1200VA	1500VA	2000VA	3000VA	
Input voltage		110	/120Vac or 2	220/230/240	Vac		220Vac		
Input voltage range			85-150Vac/	145-290Vac			175-275Vac		
Input frequency			50/60Hz(Au	ıto sensing)			50Hz		
Output voltage		110	/120Vac or 2	220/230/240	Vac		220	Vac	
Output voltage range			102-132Vac/	/200-255Vac			200-2	40Vac	
Output frequency			50/60Hz	z±0.5Hz			50Hz±	:0.5Hz	
Wave form	PWM (DC mode) PWM(DC								
Transfer time		٦	Typical 2-6m	s,Max≦10m	S		≤10ms		
QTY & capacity of battery	12V,4.5Ah*1	12V,7Ah*1	12V,9Ah*1	12V,7Ah*2	12V,7.5Ah*2	12V,9Ah*2	12V,7Ah*4	12V,9Ah*4	
Charging period		perio	od 4-6 hours	to 90% cap	acity		10-16 hours		
Protection			Low voltage	, overload aı	nd short circ	uit protection			
Operation temperature				0-4	0°С,				
Humidity	20%-90%(non-condensing) 20%-90%(non-condensing)								
Noise	≤40dB								
Net weight(kg)	5.5	4	6	10.2 10.2 10.6				21	
Dimension	250*95*140 305*85*140 335*118*190 340*110*265						408*14	15*220	
Optional	LED/LCD,RJ45/11&USB								

DIV Series Power Inverter 500-6000VA

Features

- CPU control technology
- SPWM technology with pure sine wave
- · Powerful load capability and high compatibility
- Advanced reverse noise technology
- Settable to AC model and DC model
- Fault protection
- Interface: RJ45,Dry contacts



Specification

MODEL		DIV500	DIV1000	DIV2000	DIV3000	DIV4000	DIV5000	DIV6000				
Capacity		500VA	1000VA	2000VA	3000VA	4000VA	5000VA	6000VA				
DCInput	Input voltage(Vdc)	12V/24V/48V/110V/220V										
DCIIIput	Reverse noise current		10%									
	Bypass volt(Vac)	265V-185V(±10V)										
AC Bypass	Input current(A)	2.3	4.5	9.1	13.6	18.2	22.7	27.3				
	Transfer time(ms)		≤5ms									
	Rated capacity(VA)	500VA	1000VA	2000VA	3000VA	4000VA	5000VA	6000VA				
	Output power(W)	400W	800W	1600W	2400W	2800W	3500W	4200W				
	Voltage and Frequency			:	220Vac , 50Hz	Z						
	Rated current(A)	1.8	3.6	7.2	10.8	14.5	16	19.1				
	Voltage precision(V)	220±1.5%										
	Frequency precision(Hz)	50±0.1%										
AC Output	Wave form	Sine wave										
	THDu	3%										
	Transient response	5%										
	Power factor(PF)	0.8/0.7										
	Overload capability	120% , 30 sec										
	Efficiency	≥85%										
	Transfer to bypass	≤5ms										
	Isolation(IN/OUT)	1500Vac , 1min										
	Noise(1 meter)	≤40dB										
Environment	Operation temperature	-25°C-+50°C										
	Humidity	0-90%(non-condensing)										
	Altitude(m)				≤2000							
Mechanical	Standard (W*D*H)(mm)	482*356*88 (500VA;1kVA;2kVA) 482*388*88 (3kVA;4kVA;5kVA) 482*400*176 (6kVA)										
	Weight(kg)		8.5(50	0VA,1000VA,2	2000VA,3000V	/A);12(4000VA	N) ; 1					





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 a longer backup time

Solution

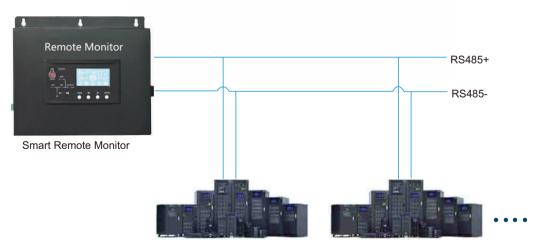


Smart Remote Monitor

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

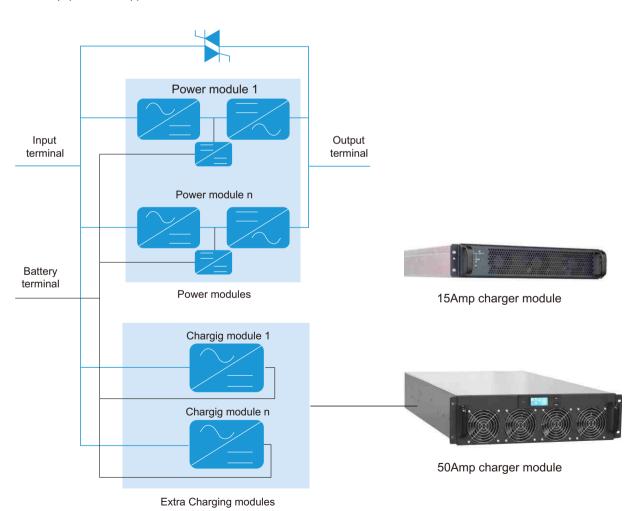
Modular and hot-swappable design, the same size and outlook as power module

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

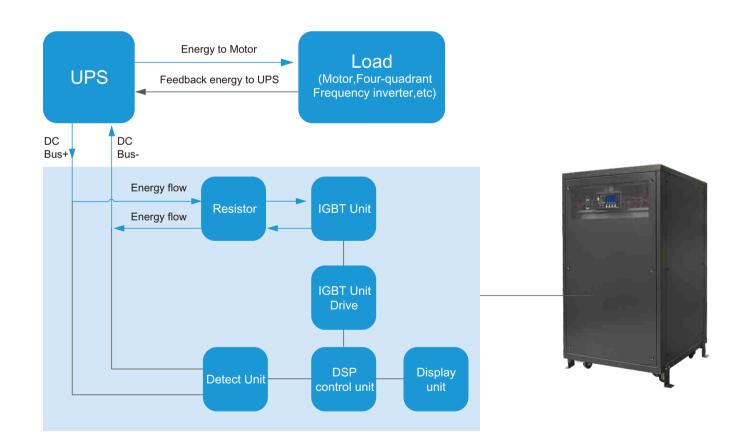


Energy Absorbing Unit

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		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



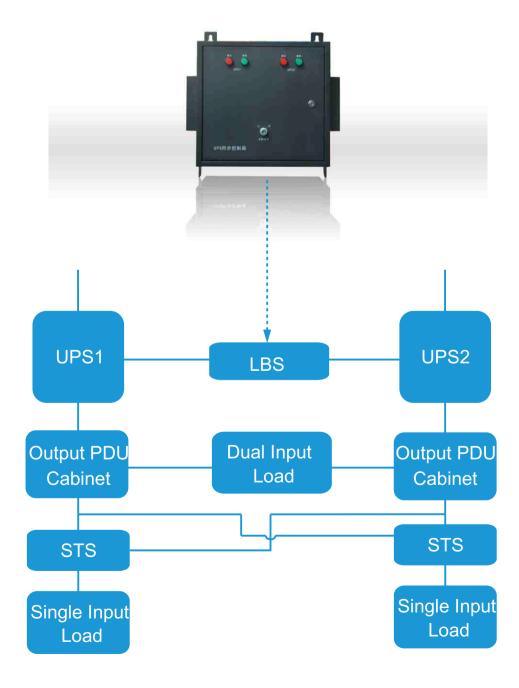
HTX31 Series

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; 100AH3PCS;
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

				Weight±5%			
Model	RatedVoltage(V)	Capacity(Ah)	Length	Width	Height	Total Height	
			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	173	111	330	364	13.5
MF250-2	2	250	173	111	330	364	15.5
MF300-2	2	300	171	151	330	364	18.5
MF350-2	2	350	171	151	330	364	21
MF400-2	2	400	210	176	330	367	25.5
MF450-2	2	450	210	176	330	367	28
MF500-2	2	500	241	175	330	365	32
MF600-2	2	600	302	175	330	367	37
MF800-2	2	800	410	175	330	367	52
MF1000-2	2	1000	475	175	330	367	61
MF1200-2	2	1200	475	175	330	367	71
MF1500-2	2	1500	400	350	345	382	92
MF2000-2	2	2000	490	350	345	382	119
MF2500-2	2	2500	490	350	345	382	140
MF3000-2	2	3000	710	350	345	382	184