



Power Solution Specialist



INVT Power System

Power Solution Specialist

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

INVT Copyright
Information may be subject to change without notice during product improving

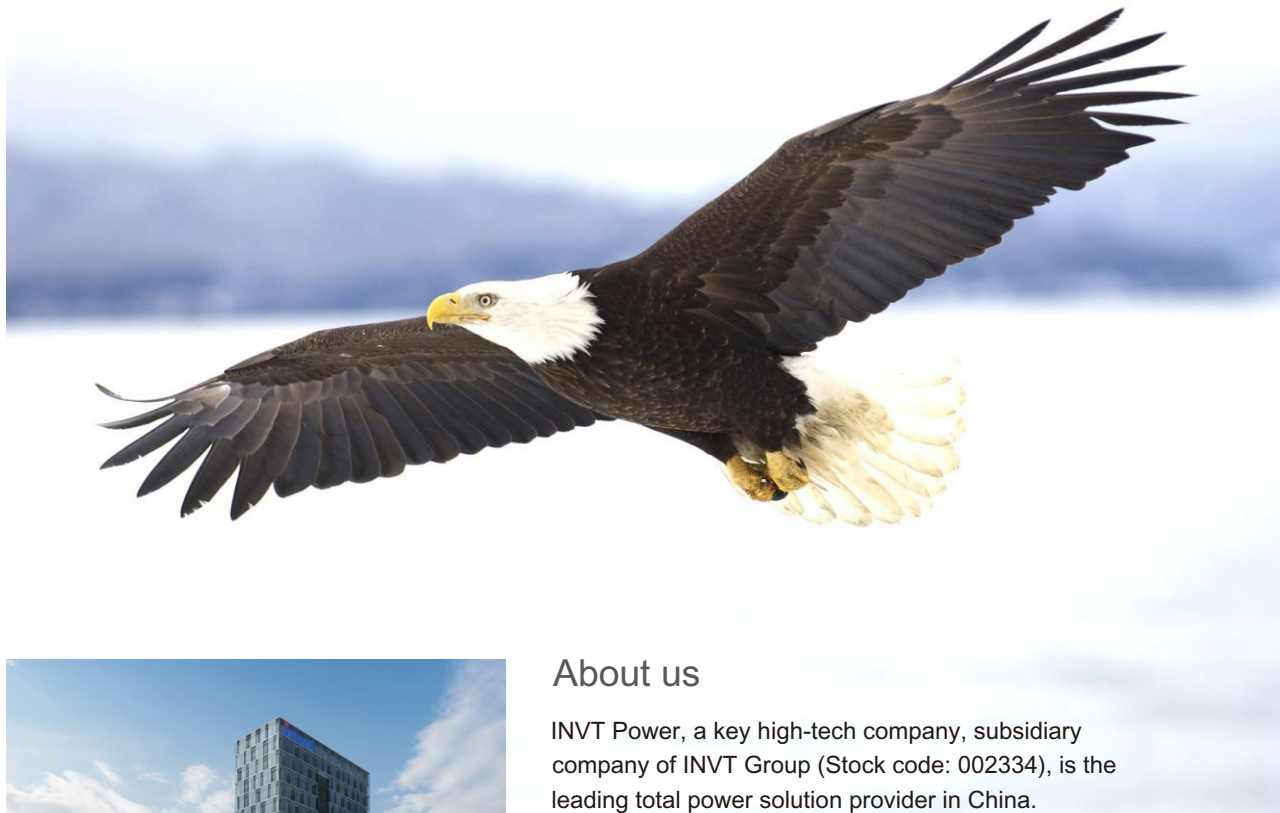


202204(V2.6)



Stock code : 002334

INVT POWER SYSTEM (SHENZHEN) CO.,LTD



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 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.

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



Suzhou Industrial park



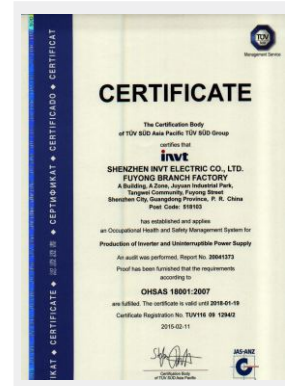
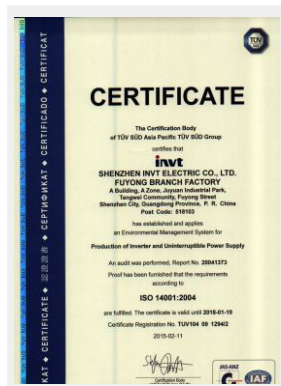
Fuyong production base



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



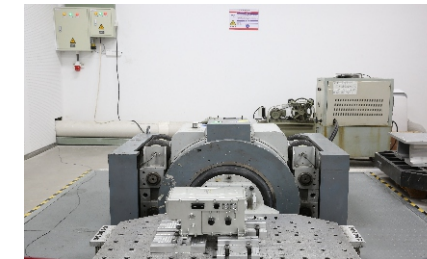
Climate Environment Lab



Performance Test Lab



Components Test Lab



Mechanical Environment Lab



Dust-proof and Water-proof Lab



EMC Lab



Equipment Development Lab



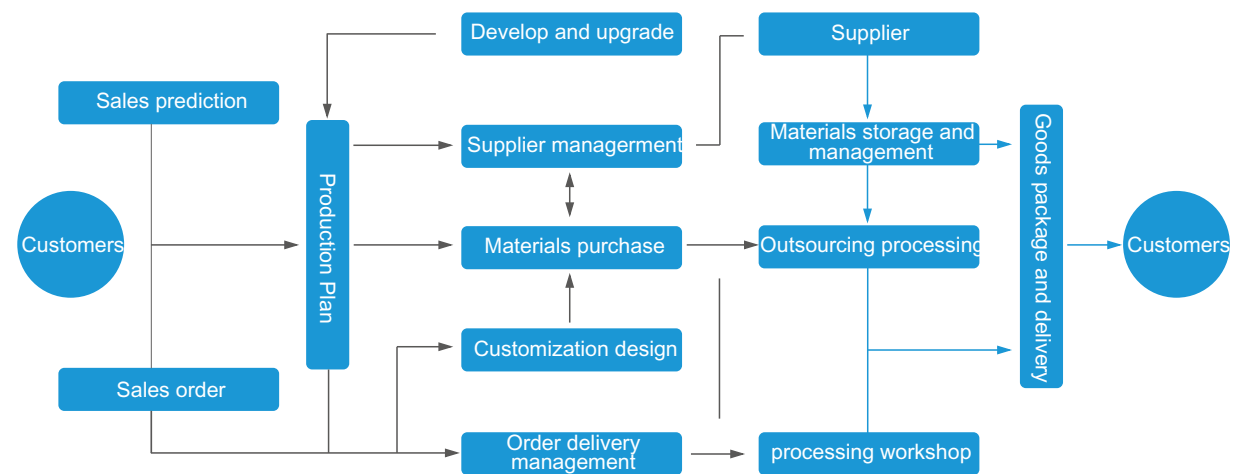
UPS R&D Lab



Production Management System

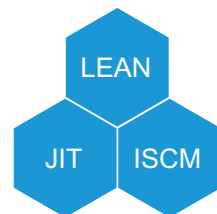
INVT Power ensures high quality products and fast response to our customers by applying advanced Supply Chain Management System based on Quality Control Management, Delivery Management, Service and Strategic Control System.

INVT applies Standardized Operational System. We 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.



Honor

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



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

MODEL			RM600/50X	RM500/50X	RM400/50X	RM300/50X	RM200/50X	RM100/50X	RM240/40X	RM160/40X	RM080/40X	
System Capacity			600kVA	500kVA	400kVA	300kVA	200kVA	100kVA	240kVA	160kVA	80kVA	
Power Module Capacity			50kVA/50kW						40kVA/40kW			
Input	Dual Input		Standard			Optional		Standard				
	Phase		3 Phases + Neutral + Ground, 380/400/415VAC (line-line)									
	Input Voltage Range		304~478Vac (Line-Line),full load 228V~304Vac (line-line),load decrease linearly according to the min phase voltage									
	Rated Frequency		50/60Hz									
	Input Frequency Range		40Hz ~ 70Hz									
	Input PF		>0.99									
	Input THDi		<3% (100% Linear Load)									
Bypass	Rate Voltage		380/400/415VAC (Line-Line)									
	Rate Frequency		50/60Hz									
	Input Voltage Range		Settable, -40% ~ +25%									
	Input Frequency Range		Settable, ±1Hz, ±3Hz, ±5Hz									
	Bypass Overload		110% Long term operation 110%~125% last for more than 5min 125%~150% last for more than 1min			125%, long time <130%, for 10 mins <150%, for 1 min		110% long term 125% for 5mins 150% for 1min	125%, long time 130%, for 10 minutes 150%, for 1 min			
Output	Rated Inverter Voltage		380/400/415VAC (Line-Line)									
	Voltage Regulation		1% for balance load; 1.5% for unbalance load									
	Rate Frequency		50/60Hz									
	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 10mins;150% for 1min;>150% for 200ms									
Battery	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		
System	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									
	Relative Humidity		0 ~ 95% Non condensing									
	Altitude		<1000m, Load derated 1% per 100m From 1000 ~ 2000m									
	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									
Physical	Weight (kg)	Cabinet	1040	900	700	490	350	210	490	350	210	
		Power module	45						44			
	Dimension W*D*H (mm)	Cabinet	1300*1100*2000			1050*1000*2000	650*1095*2000	650*960*1600	600*980*1150	650*1095*2000	650*960*1600	600*980*1150
		Power module	510*700*178						510*700*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	
Input	Dual Input		Standard							Optional		Standard		
	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		<3% (100% Linear load)											
Bypass	Rate Voltage		380/400/415Vac (line-line)											
	Rate Frequency		50/60Hz											
	Input Voltage Range		Settable, -40% ~ +25%											
	Bypass Frequency Range		Settable, ±1Hz, ±3Hz, ±5Hz											
	Bypass Overload		125% long term operation 130% for 10 mins 150% for 1 min >150% for 300ms							110% long term operation 125% for 5 mins 150% for 1 min >150% for 1s				
Output	Rate Voltage		380/400/415Vac (line-line)											
	Voltage Regulation		1% for balance load; 1.5% for unbalance load											
	Rate Frequency		50/60Hz											
	Frequency Precision		0.1%											
	Output PF		1											
	Output THDu		<1% , Linear load; <5.5%, Non-linear load											
	Crest Factor		3:1											
Battery	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)											
	Voltage Precision		±1%											
	Charge Power		up to 20% * Output active power											
System	Efficiency		AC Mode		95%	96%	95%	96%	95%	96%				
			ECO Mode		99%									
			Battery Mode		95%	96%	95%	96%	95%	96%				
	Display		10.4"(240kVA-500kVA) or 7"(60kVA-200kVA) touch screen LCD + LED + keyboard											
	IP Class		IP 20											
	Interface		RS232, RS485, Programmable Dry Contact, USB											
	Option		SNMP Card, Parallel kit, SPD, LBS, Dust filter											
	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											
	Physical	Applicable Standards		Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3										
Weight (kg)		170	210	231	210	266	305	350	445	490	700	900		
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	1050*1000*2000	1300*1100*2000		

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 makes it ideal choice for computers, telecommunication equipment and other 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 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	Single phase in , Single phase out					
Input voltage range	110Vac~288Vac					
	100% load@ > 176Vac; 90% load@ > 160Vac 80% load@ > 140Vac; 60% load@ > 110Vac					
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)	<48dB@<70%load; <58dB@>70%load				<50dB@<70%load; <58dB@>70%load	
Overload capability (Inverter mode)	110%: for 10 min;125%: for 1min; 150%: for 30 sec					
Overload capability (Battery mode)	110%: shut down after 1 min; 130%:shut down after 10 sec; >130%: shut down after 200 ms					
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	33	