

Power Solution Specialist

# INVT Power System

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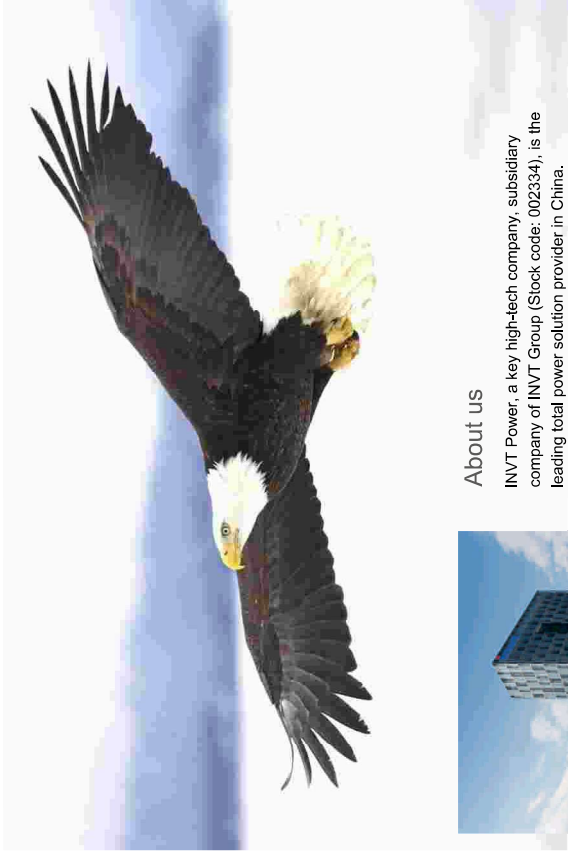


202012(V2.3)



Stock code : 002334

INVT POWER SYSTEM (SHENZHEN) CO.,LTD



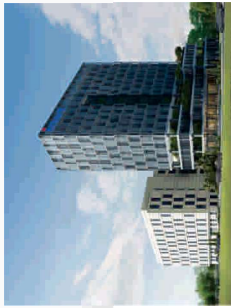
### About us

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 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.

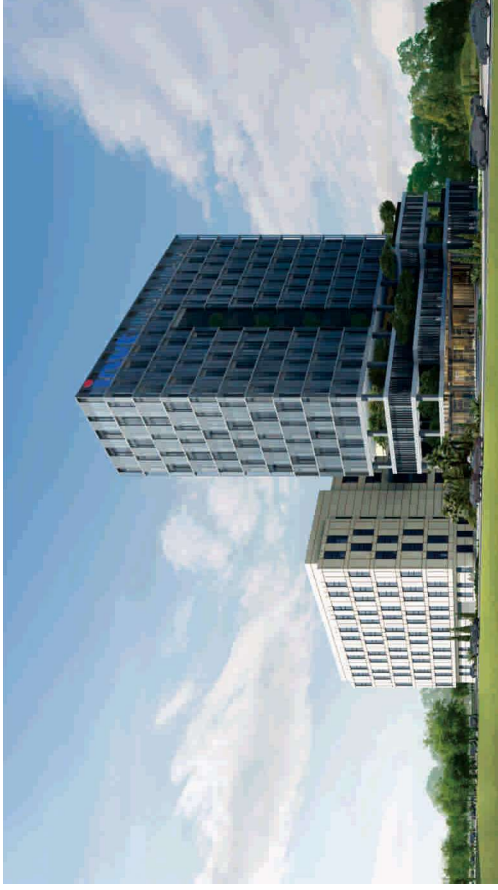
Warmly welcome to be our distributor and partner. Meanwhile, we can provide OEM and ODM production and service for the clients all around the world.



Shenzhen Industrial park



Suzhou Industrial park



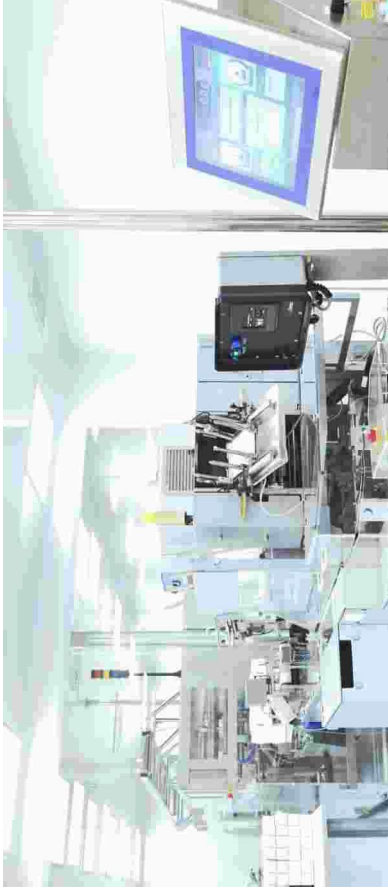
Fuyong production base



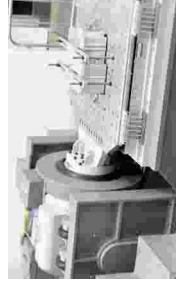
## How we make difference

### Research and Innovation

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



- CNAS National LAB
- TÜV Witness Qualification LAB
- UL Witness Qualifications LAB



Mechanical Test Lab



Lightning Strike Test Lab



Performance Test Lab



Thermal Test Lab



Components Test Lab



Environmental Test Lab



EMC Lab



Heat Shock Lab

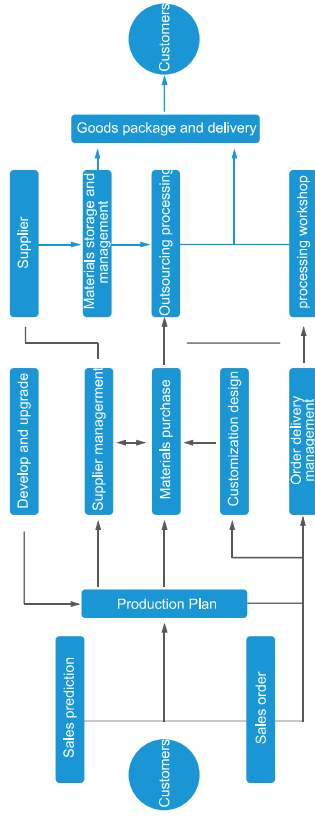




### Production Management System

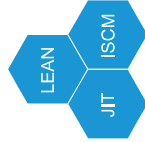
INVT Power ensures high quality products and fast response to our customers by applying advanced Supply Chain Management System based on Quality Control Management, Delivery Management, Service and Strategic Control System.

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

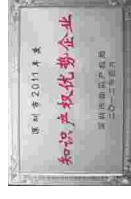
National outstanding energy-saving enterprise

Famous brand of Guangdong province

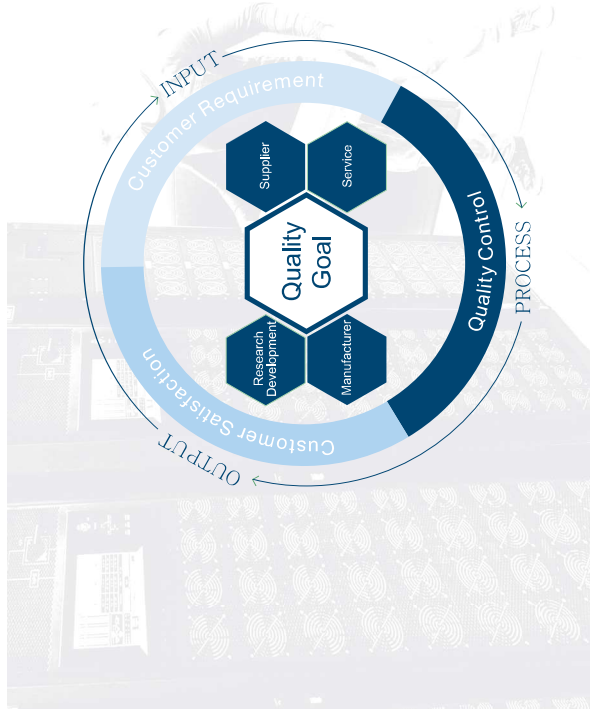
Top 100 independent innovation enterprise

Top 10 China customer satisfaction brand

Procurement finalists brand by central governments



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



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

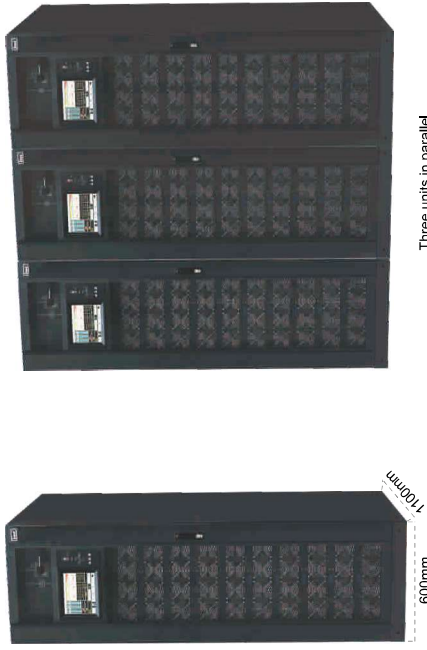


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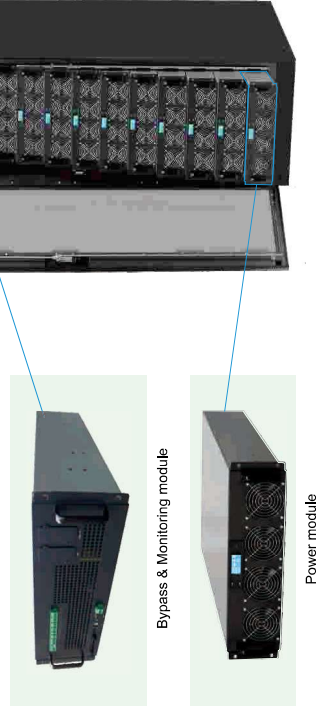
### High Density, Modular, Scalable

- High power density, footprint for 300kVA is 0.66m<sup>2</sup>, power density 409kW/m<sup>2</sup>, 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



Power module

Bypass & Monitoring 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.

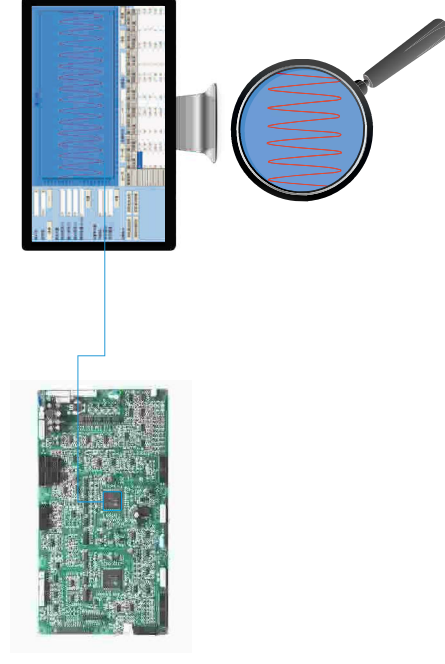
- Maintenance reminder, running time of capacitors and fans displayed and recorded
- Comprehensive temperature monitoring for thermal abnormal detection
- Intelligent battery charger for long battery life



### 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



## 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 Phase	Standard			Optional								
Input Voltage Range	3 Phase+Neutral+Ground, 380V/400V/415V(line-line)											
Rate Frequency	50/60Hz											
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											
Input Voltage Range	Settable, -40% ~ +25%											
Bypass Frequency Range	Settable, ±1Hz, ±3Hz, ±5Hz											
Bypass	125% long term operation 130% for 10 mins 150% for 1 min >150% for <30ms											
Bypass Overload	110% long term operation 125% for 5 mins 150% for 1 min >150% for 1s											
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											
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											
Battery Cold Start	Optional											
Efficiency	95%	96%	95%	96%	95%	95%	99%	96%	95%	96%	95%	
AC Mode	99%											
ECO Mode	95%											
Battery Mode	10.4"(240kVA-500kVA) or 7"(60kVA-200kVA) touch screen LCD + LED + keyboard											
Display	IP 20											
IP Class	RS232,RS485, Programmable Dry Contact, USB											
Interface	SNMP Card, Parallel kit, SPD, LBS, Dust filter											
Option	Operation: 0 ~ 40 °C Storage: -40 ~ 70 °C											
Temperature	0 ~ 95% Non-condensing											
Relative Humidity	<1000m, Within 1000m to 2000m, 1% power derating for every 100m rise											
Altitude	65dB @ 100% load, 62dB @ 45% load											
Noise (1 meter)	Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3											
Applicable Standards	170	210	231	210	266	305	350	445	490	700	900	
Weight (kg)	600*960 *950	600*980 *1150	600*980 *1400	600*980 *1150	650*970 *1400	650*960 *1600	650*970 *1600	650*970 *2000	650*970 *2000	1050*1000 *2000	1300*1100 *2000	
Dimension W*D*H (mm)												