

# INVT in Bolivia



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03 New Product

01

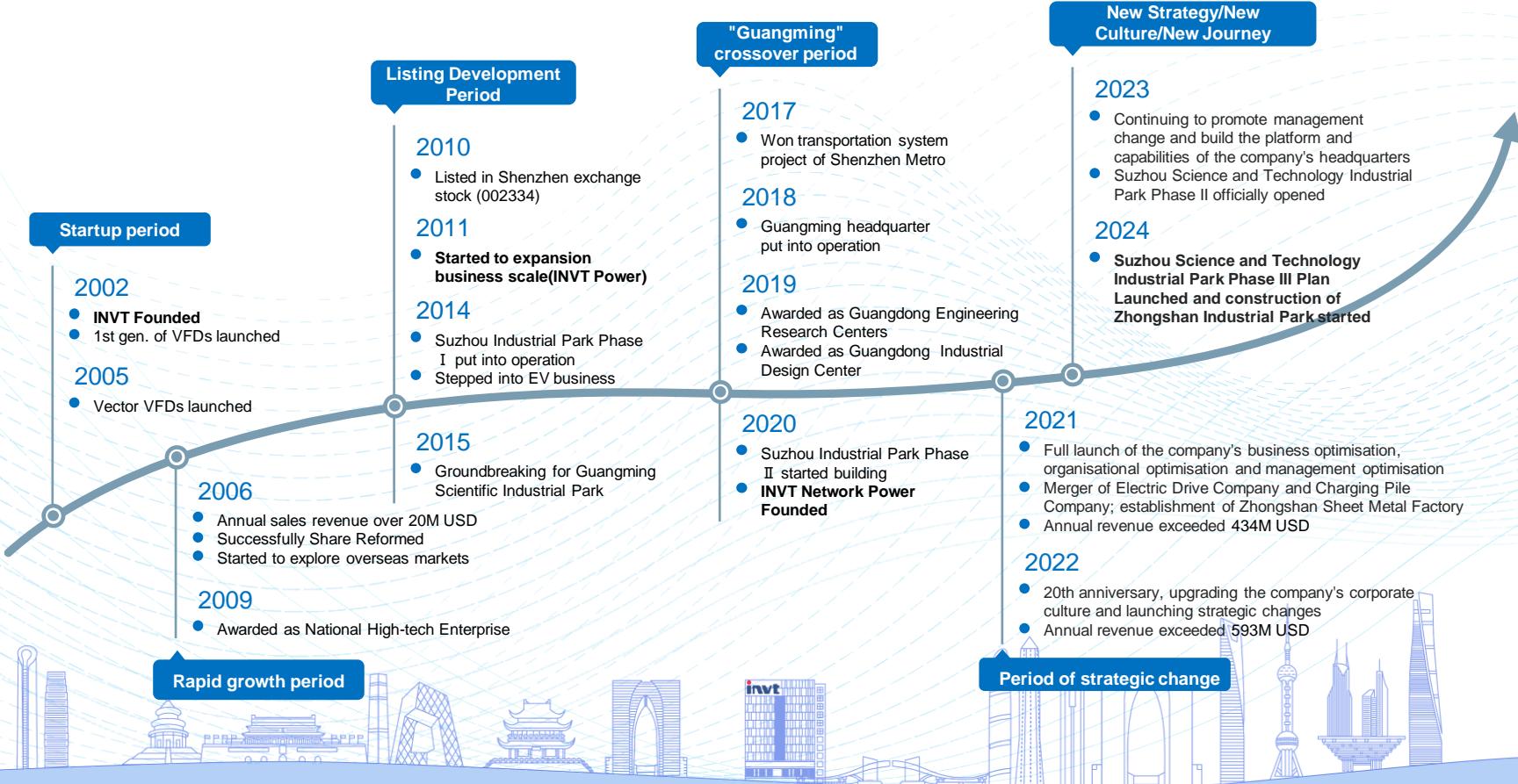
# INVT Homework

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- Milestone
- Main business&Certificate
- Work in Global
- Revenue
- R&D and LAB
- Work in Colombia



# Milestones





# Business Scale



Your Trusted Industry Automation Solution Provider

2024 Sales Revenue

**656M.+**  
(USD)



Total Assets

**741M.+**  
(USD)



Staff

**5000.+**



2023 Net Profit Attributable  
to The Parent Company

**53M.+**  
(USD)



Subsidiaries

**15**



2025 Sales Revenue(E)

**829M.+**  
(USD)

## Honors and Certificates



- National Hi-Tech Enterprise
  - National Intellectual Property Demonstration Enterprise
  - National Intellectual Property Management System Certification
  - China Patent Excellence Award
  - Engineering Technology Research Center (Guangdong)
  - Industrial Design Center (Guangdong)
  - Scientific Technology Award (Guangdong)
  - Science and Technology Progress Award (Shenzhen)
  - Patent Excellence Award (Shenzhen)
  - Certificate of CNAS Laboratory
  - Certificate of TÜV Functional Safety
  - Certificate of UL Witness Test Data Program

# R&D

 Drive technology development

**24** years

 R&D staff

**35%**

 Research Centers

**7**

 Patents **1530+**

 Sales revenue for R&D **10%**

 INVT Institute for Industrial Automation and Electric Power

**Shenzhen Key Enterprise Research Institute**

Informatization | Digitalization | Digital Intelligence | Digital Governance



Cooperation with universities

Programme cooperation

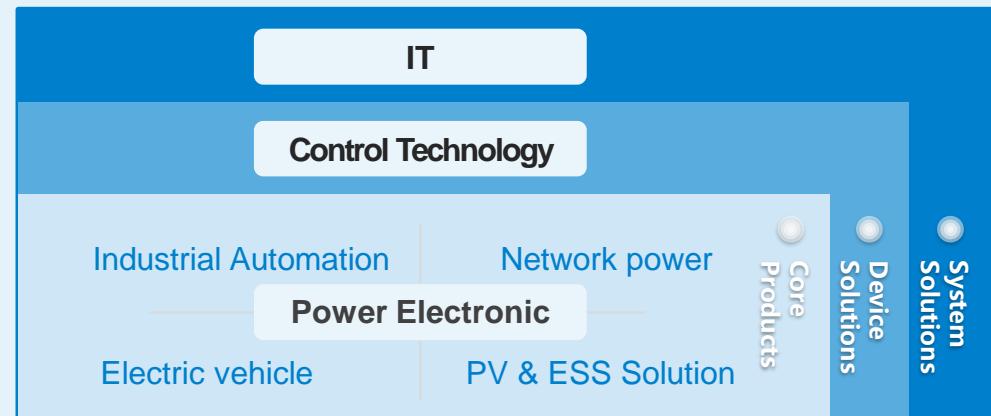


Institutional cooperation

Industrial cooperation



**Open R&D system, strong university-enterprise alliance**



**Concurrent moving in three technological directions to build system solutions**



**R&D**



1



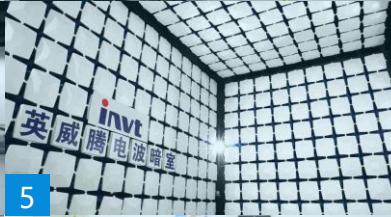
4



7



2



5



8



3



6



9

**1. Component Lab**

**2. Environmental Reliability Lab**

**3. Performance Lab**

**4. Safety Lab**

**5. EMC Lab**

**6. Mechanical Reliability Lab**

**7. Dustproof and Waterproof Lab**

**8. Equipment Development Lab**

**9. Pre-R&D Lab**

Quality assurance: IATF16949:2016 | ISO9001:2015 | ISO/IEC17025:2017 | ISO/TS22163 : 2017

Environmental Management System: ISO14001:2015

OHSMS : ISO45001:2018

Laboratory Capability Certification : CNAS Certificate | TUV ACT Certificate | UL laboratory Certificate | CE





# Product Certificates



- ISO9001-2015 Quality management system certificate Industrial Design Center
- ISO14001-2015 Enviroment management system certificate)
- ISO45001-2018 Certificate of conformity of occupational health and safety management system
- ISO50001-2018 Energy management system certificate
- EN 62040-1,-2,-3(CE Certificate)
- Certificate of CNAS Laboratory
- Certificate of TÜV Functional Safety
- Certificate of UL Witness Test Data Program
- Certificate RoHS,REACH for Material



Shenzhen Fuyong Industrial Park



Suzhou Scientific Industrial Park



Zhongshan Industrial Park

**Product Line:** Network Power Products  
and EV Driver

**Production Capacity:** 800,000+ units/year

**Product Line:** Automation Products

**Production Capacity:**  
2,000,000+ units/year

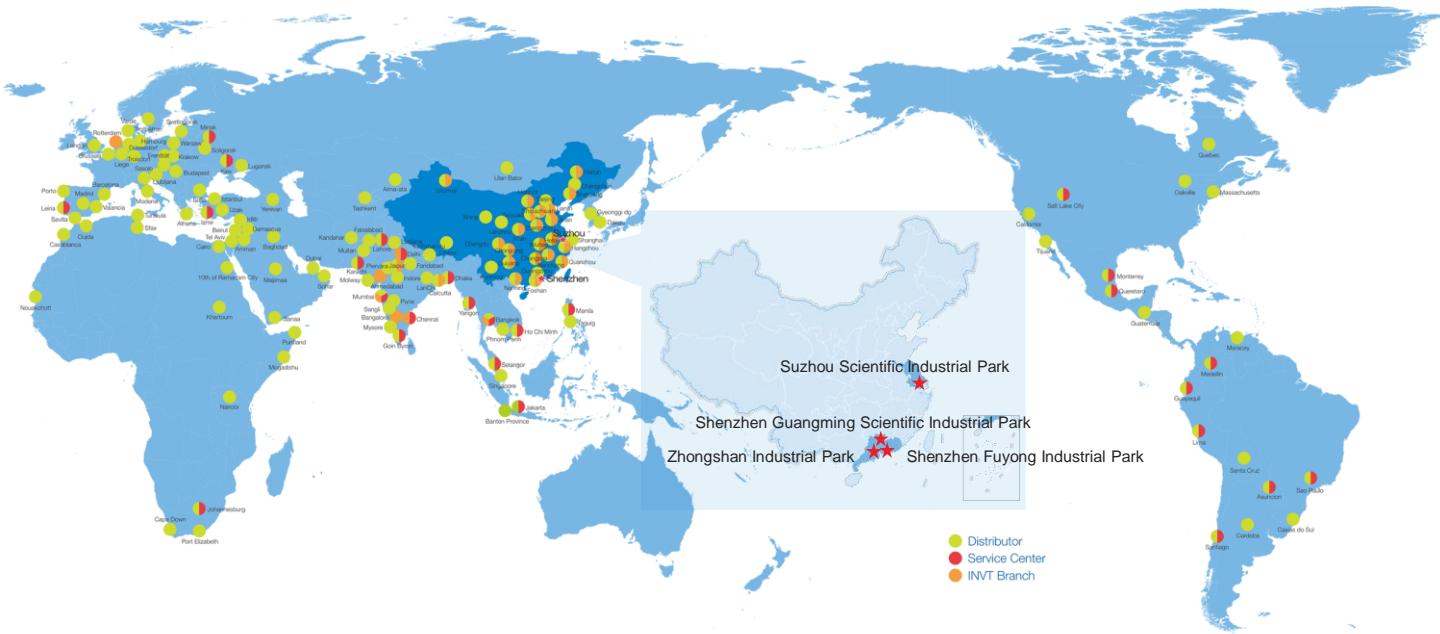
**Product Line:** Network Power Products

**Production Capacity:**  
2,000,000+ units/year



# Marketing Network

Channel Type
Regional Partners
Industry Partners
System Integration Partners
PP Project Partners
Authorisation Level
Diamond Distributor
Premier Distributor
Golden Distributor
Silver Distributor
Brand-Label Distributor



**100+**  
Countries

**600+**  
Distributors

**16**  
Domestic Regions

**8**  
Overseas Regions

**4**  
Overseas Subsidiaries

**40+**  
INVT Branches

**4**  
Factories

**100**  
Service Centers

Four major Factory
Shenzhen Guangming
Shenzhen Fuyong
Suzhou
Zhongshan
Overseas Subsidiaries
India Subsidiary
Thailand Subsidiary
Dutch Subsidiary
Korean Subsidiary

# —VR Visiting [https://www.720yun.com/t/5evkubimg8q?scene\\_id=107720227](https://www.720yun.com/t/5evkubimg8q?scene_id=107720227)

Headquarter Fuyong Factory Suzhou Production Base Lab Exhibition Hall Staff X

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[Aerial view](#)[Park landscape](#)[Entrance hall](#)[Material Inspection](#)[Components](#)[PCBA Test Lines](#)

[Auto-Spray Painting](#)[UPS Assemble lines](#)[Power PL](#)[Automatic PL](#)[Auto-Production](#)[Pre-processing Area](#)

[Safety and ATE](#)[Data Center](#)

[Precision Cooling](#)

[Precision Cooling](#)

[Final Test Workshop](#)[Package Workshop](#)



# Main businesses

## Industrial Automation



Variable Frequency Drive | Servo System | Motion Controller | IoTs

## Electric Vehicle



Motor Controller | Auxiliary Controller | On-board Power Supply | EV Charger

## Network Power



Smart Modular Data Center System | Smart Cooling System | Smart Power System | Smart Monitoring System

Providing professional industrial control and energy efficiency solutions in the four businesses

## PV & ESS Solution



On-Grid Inverter | Hybrid Inverter | Storage Battery | All-In-One ESS | Off-Grid Inverter

02

## INVT UPS

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To check if there was any doubts and  
suggestions

# RM Series 5-20kVA Modular Online UPS

## Cabinet system included:

- 4 slots for power module 5kVA
- 2 slots for Smart charger module 10A
- 10 Slots for battery module 72VDC

## Features:

- Rack mounted design ,PF=1
- 3/1 can configure to 1/1
- 3PCS cabinets can be paralleled
- 7" touch screen
- 4pcs Cabinets paralleled

## Application:

- Hot-Swap design for small and medium-sized Data center



RM3120/05D(S)



50kVA power module  
Output PF is 1



RM100/50X



RM200/50X



RM300/50X



RM500/50X



**40kVA power module**  
Output PF is 1



**RM080/40X**



**RM160/40X**

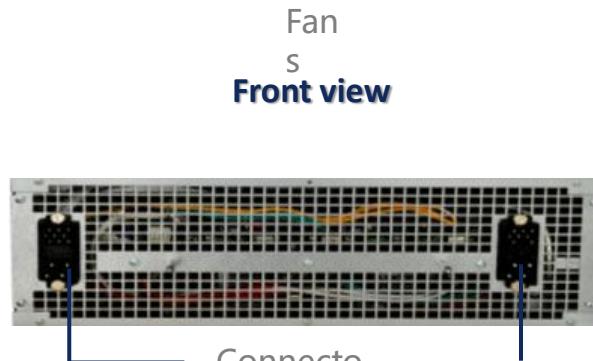


**RM240/40X**

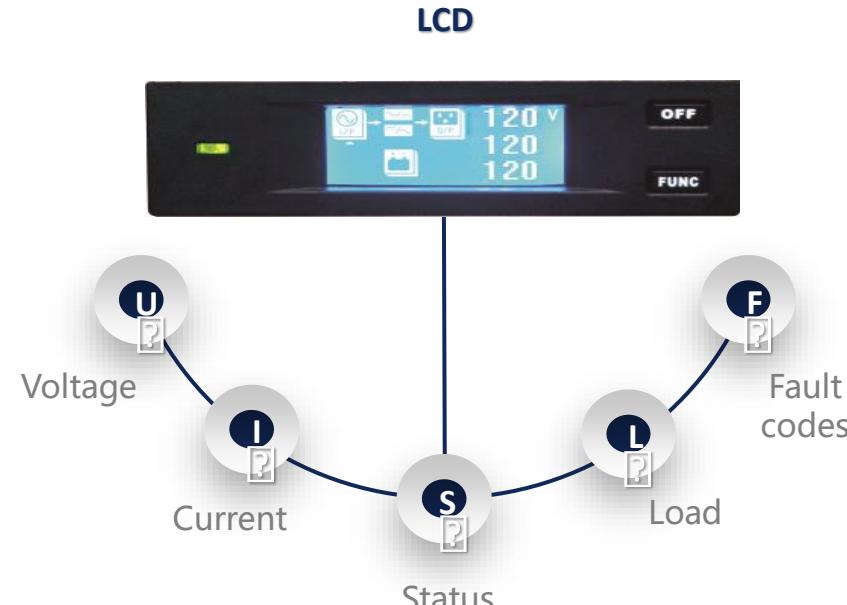


**RM400/40X**

## PM50X 50KVA/50KW Power Module



**Rear view**





**30kVA power module**  
Output PF is **1**



**RM180/30X**



**RM300/30X**



**RM600/30X**



**25kVA power module**  
Output PF is 1



**RM150/25X**



**RM250/25X**

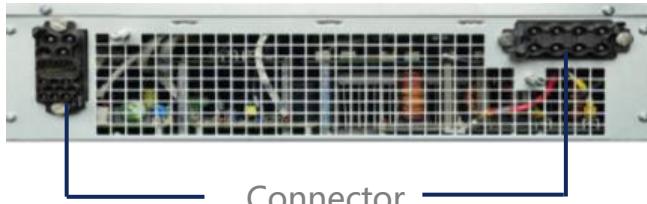


**RM500/25X**

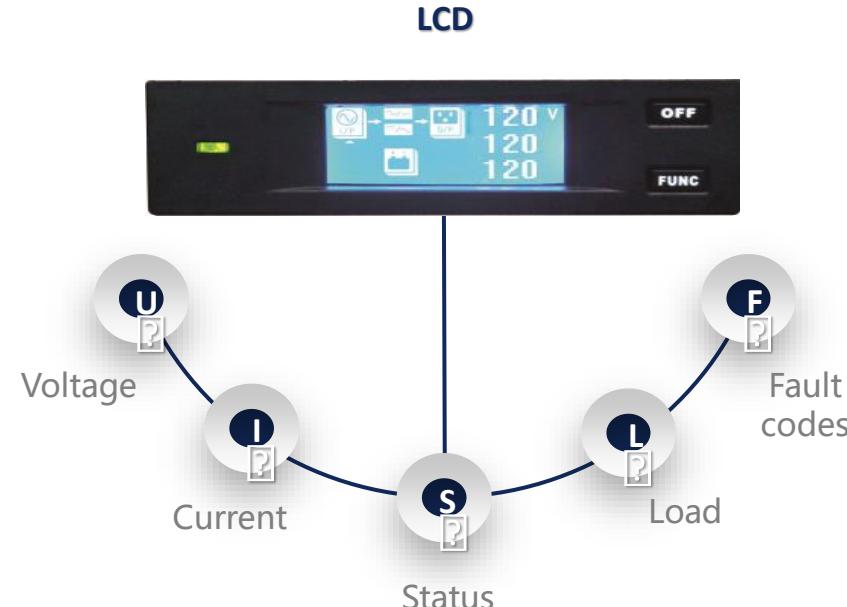
## PM30X 30KVA/30KW Power Module



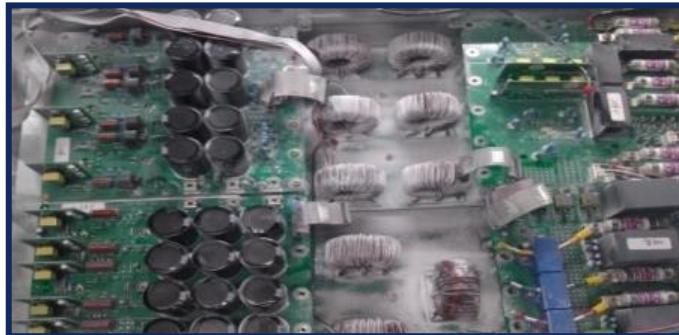
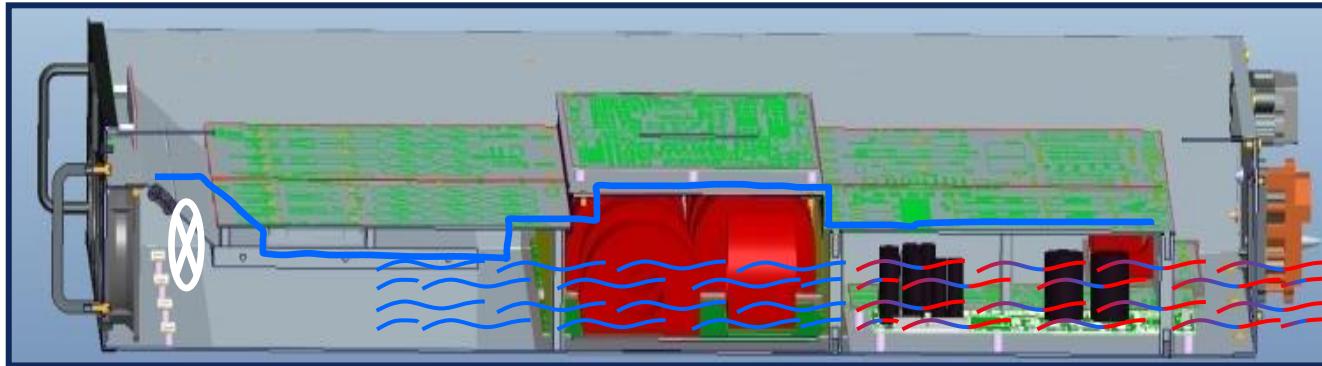
Front view



Rear view



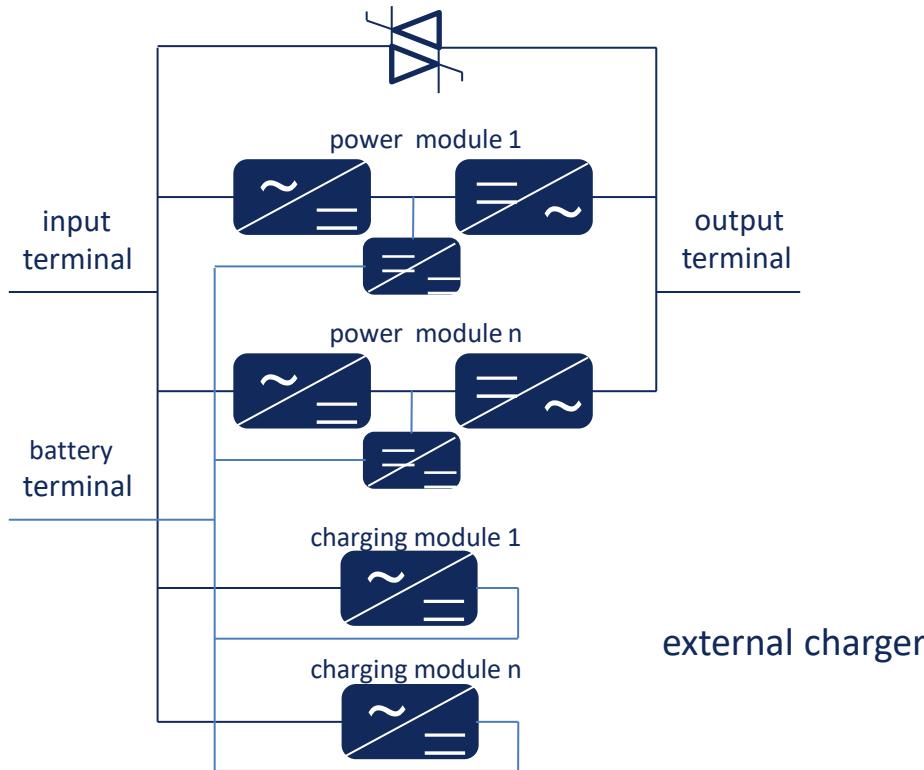
## Isolated air flow



Air flow channel  
and PCB are  
isolated

Keep PCB free of  
dust  
Higher reliability

## 50A Smart Charger Module



Size same as PM30X

Hot swappable

0-50A adjustable



# RM Series 20–200kVA Modular Online UPS



**20kVA power module**  
Output PF is 0.9



**RM060/20**



**RM120/20**



**RM200/20**



- Input /Maintenance Breaker/output
- Bypass and Monitor Module
- 20KVA Power module \*3pcs
- DC Breaker
- Battery Slot\*16pcs

## PM20 20KVA/18KW Power Module



IGBT Modular

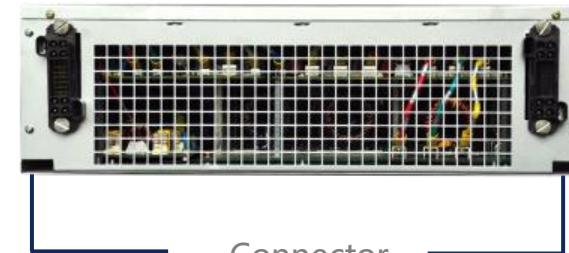
PF 0.9

height 3U

weight 22kg



**Front view**



**Rear view**



### Hot swappable battery cabinet

32pcs  
battery  
packs  
in total

battery  
breaker



Each  
battery  
pack  
has  
10pcs  
12V/9Ah  
batteries



# RM Series 10–60kVA Modular Online UPS



**10kVA power module**  
Output PF is 1



**RM020/10X**



**RM040/10X**



**RM060/10X**

# RM Series 15–90kVA Modular Online UPS



**10kVA power module**  
Output PF is 1



**RM030/15X**



**RM045/15X**

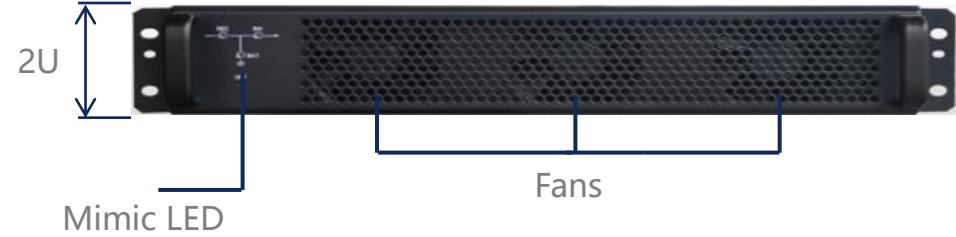


**RM090/15X**

## PM10X 10KVA/10KW Power Module



PF	1
size	436*590*85
height	2U
weight	15.3kg



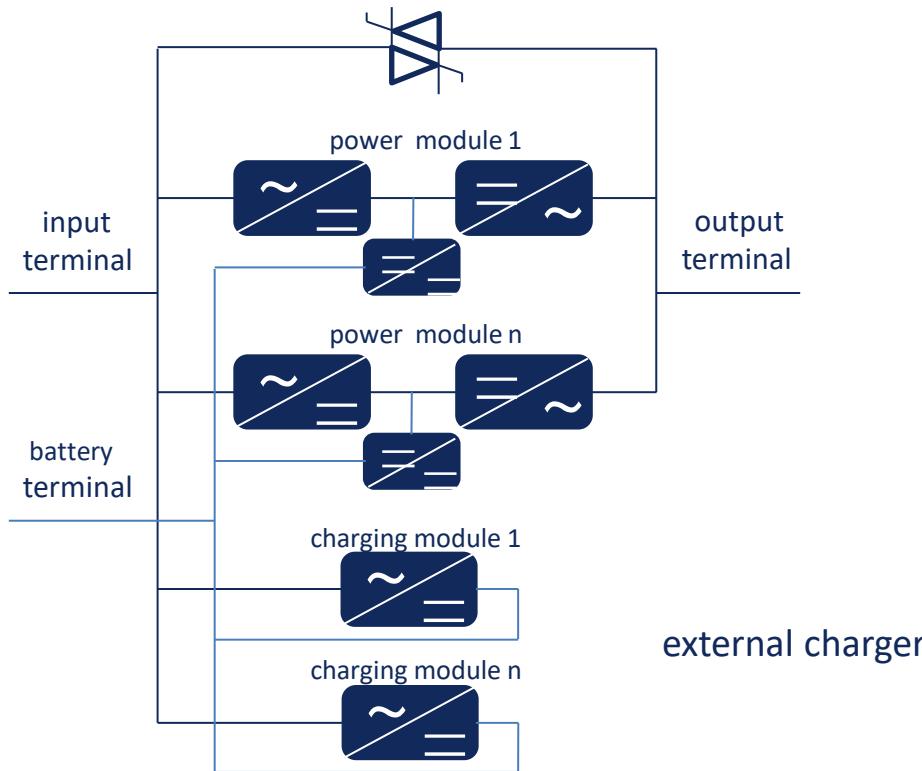
**Front view**



Connector  
Serial port  
For firmware updating

**Rear view**

## 15A Smart Charger Module



Size same as PM10X

Hot swappable

0-15A adjustable

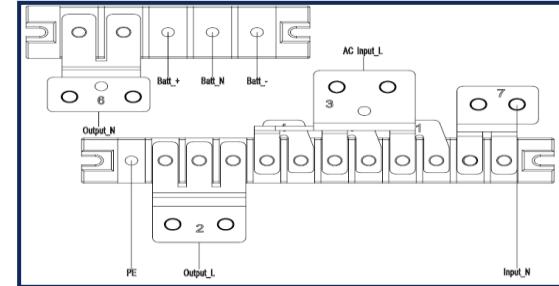
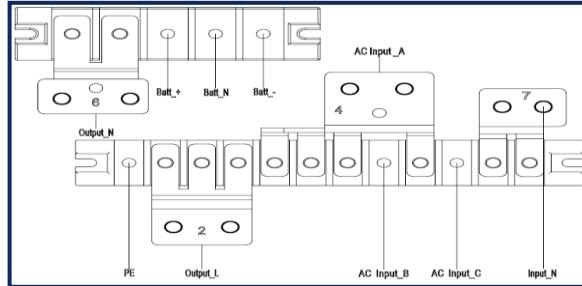
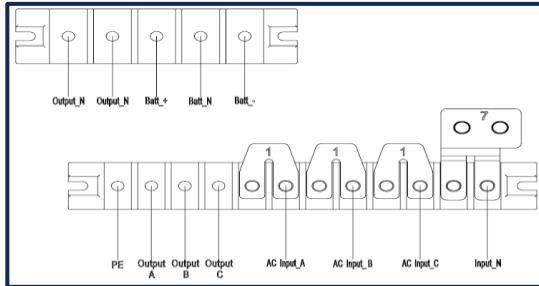


**Support Rack Mounted Design**





## Flexible configuration



3 phases in, 3 phases out

3 phases in, 1 phases out

1 phases in, 1 phases out

# RM Series 25–200kVA Modular Online UPS



**25kVA power module**  
Output PF is 1



**RM150/25C**



**RM150/25C  
with PDU**



**RM200/25C**

## PM25C 25KVA/25KW Power Module



PF 1

size 436\*677\*85

height 2U

weight 18kg



Fans

Mimic LED  
**Front view**

battery cold start



Connector

**Rear view**

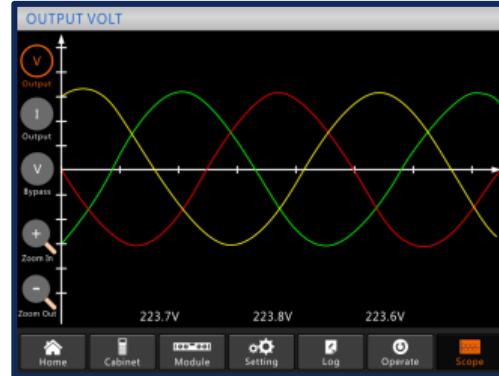
## A. Friendly HMI

10.4" touch colorful LCD screen

Multi languages to select

Graphic display

896 history logs



## B. Intelligent Monitoring Management

9 #MODULE INFORMATION



BATT+:	0.0	V	0.0	A
BATT-:	0.0	V	0.0	A
Bus:	400.0	V	400.0	V
Charger:	0.0	V	0.0	V
Fan Time:	0 H			
Capacitor Time:	0 H			
Inlet Temperature:	26.6 °C			
Outlet Temperature:	27.0 °C			
REC IGBT Temperature(A/B/C):	28.3 / 25.0 / 26.7 °C			
INV IGBT Temperature(A/B/C):	28.3 / 30.0 / 30.0 °C			

REC VER:V 55. 1. 34    INPUT    OUTPUT    LOAD    **INFO.**    S-CODE

INV VER:V 55. 1. 35

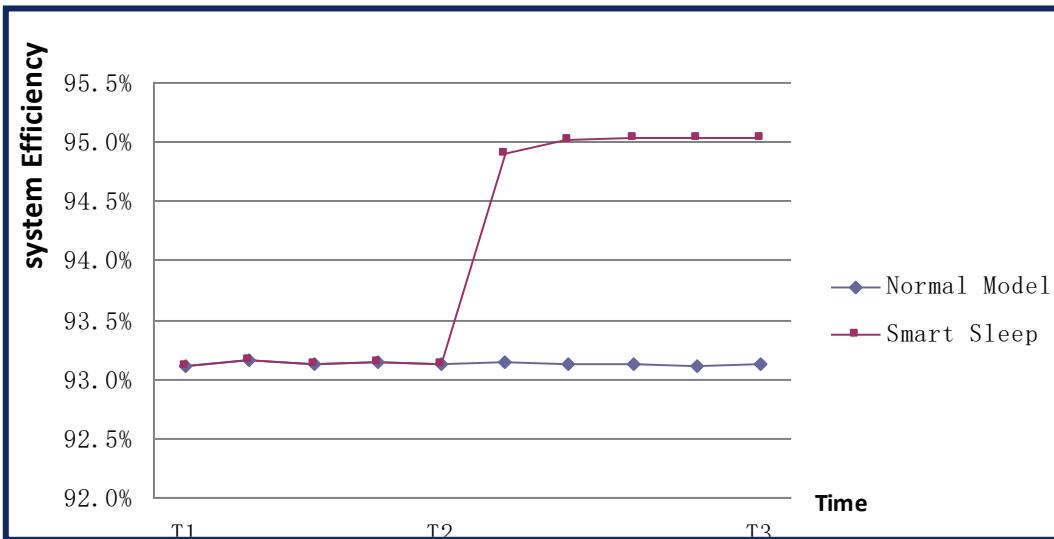
Home    Cabinet    **Module**    Setting    Log    Operate    Scope

Intelligent battery charger

Running time of critical components

Thermal IGBT temperature in real time

## C. Smart Sleep function

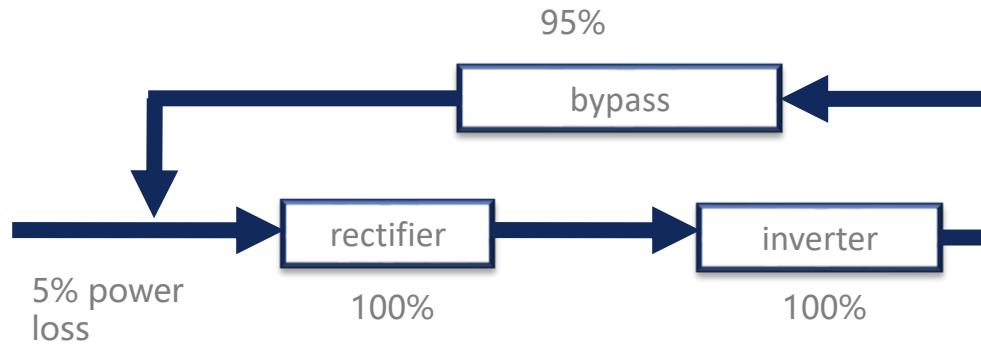


increase system efficiency  
when in low load

Easy setting, friendly for  
customer

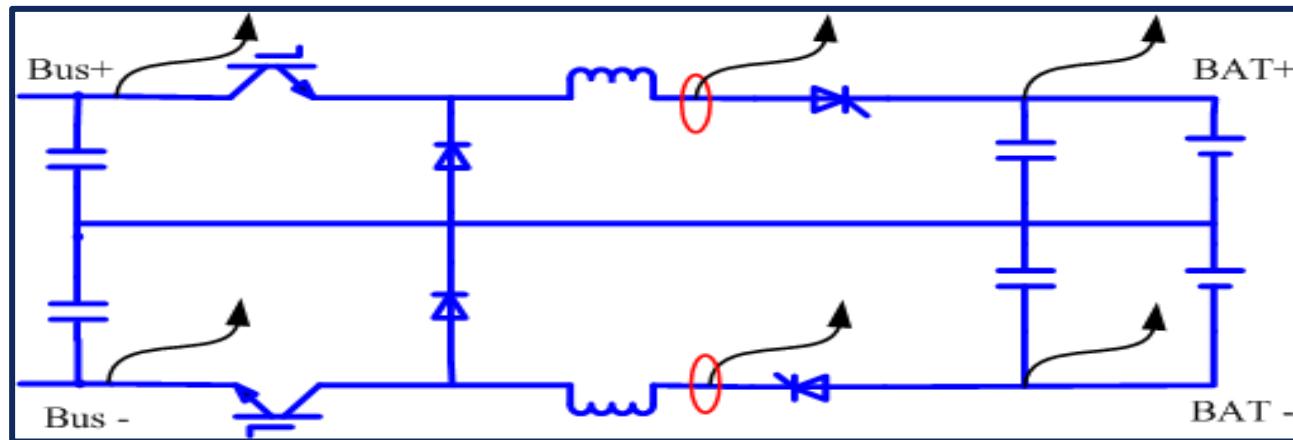
Power modules working in  
rotation, prolong life time

## D. Self-aging



- ❑ Simulate different load conditions without connecting to real load
- ❑ Energy-saving, saving 95% energy cost
- ❑ Support on-site setting and factory testing

## E. Independent Charger



- ❑ Each Power module has independent charger and full digital control
- ❑ Max Charger Current: 20%\*Power, adjustable



# Comparison list of modular UPS



	PM50X	PM40X	PM30X	PM25X	PM25C	PM20	PM15X	PM10X
Cabinet Capacity (kVA)	100;200; 300;500	80; 160; 240; 400	180; 300; 600	150; 250; 500	150; 200	60; 120; 200	30; 45; 90	20; 40; 60
Module height	4U	4U	3U	3U	2U	3U	2U	2U
Output PF	1	1	1	1	1	0.9	1	1
IGBT	Discrete	Discrete	Modular	Modular	Discrete	Modular	Discrete	Discrete
Isolated air flow	No	No	Yes	Yes	No	Yes	No	No
Parallel capacity	1500kVA	1200kVA	900kVA	750kVA	600kVA	400kVA	450kVA	300kVA
Efficiency	96%	96%	95%	95%	96%	95%	95%	95%
Compatible with 19" cabinet	No	No	No	No	Yes	No	Yes	Yes
Max charging current	16A	14A	9.6A	8.9A	8.9A	6.4A	5.3A	3.5A
Module LCD	Yes	Yes	Yes	Yes	No	No	No	No



# HT33 Series 10–40kVA Tower Online UPS



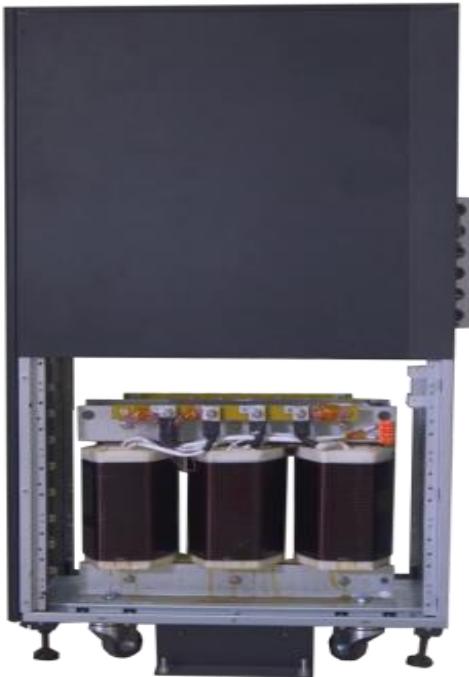
**HT33010/15XL (L)**  
**HT33010/15XS (R)**



**HT33020/30XL (L)**  
**HT33020/30XS (R)**



**HT33040XL (L)**  
**HT33040XS (R)**



Based on HT33 10-40XS series UPS

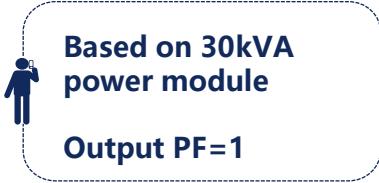


Support input side or output side  
to install isolation transformer

-  Three level technology
-  Output PF=0.9
-  Efficiency: 92%
-  Parallel up to 8 units
-  Support dual input
-  Battery cold start
-  Dry contact (optional)
-  Four breakers

HT33010/20/30/40X-TX

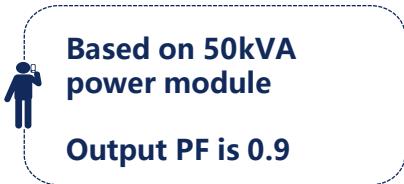
# HT33 Series 60-120kVA Tower Online UPS



HT33060X



HT33090X/HT33120X



HT33060X  
HT33100X



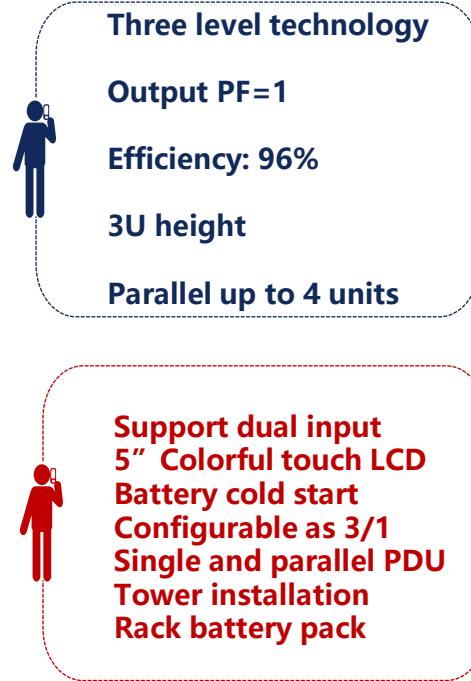
HT33150X  
HT33200X



HT33250X  
HT33300X



HT33400X  
HT33500X



**HR33010CL / HR33015CL/HR33020CL/HR33025CL**



HR1106XL/HR1110XL

Three level technology

Output PF=1

Efficiency: 95%

Digital charger (5A)

Battery cold start

Input breaker

PDU (optional)

10A charger (optional)

Battery pack (optional)

Support tower installation



# HRX11 Series 6-10kVA Rack Online UPS



Same feature as HR1106XL/HR1110XL

HR1106XS can hold 16pcs 7AH batteries

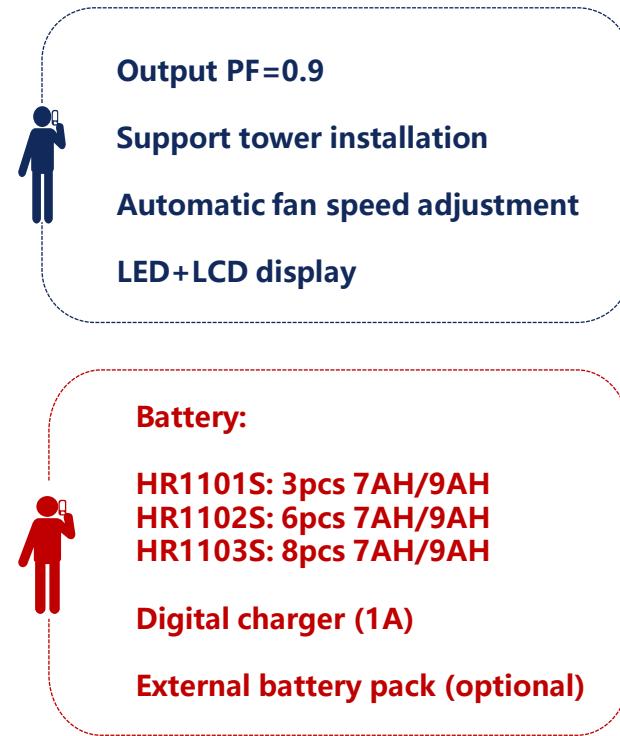
HR1110XS can hold 16pcs 9AH batteries



HR1106XS/HR1110XS



HR1101L/HR1101S  
HR1102L/HR1103L



HR1102S/HR1103S



**HR1101/2/3L/HR1101/2/3S**

**Output PF=1**

**Support tower installation**

**Automatic fan speed adjustment**

**LED+LCD display**

**Efficiency: 1k 94.5%, 2k 95%, 3k 95.5%**

**Battery:**

**HR1101CS: 3pcs 7AH/9AH,2U**

**HR1102CS: 6pcs 7AH/9AH,2U**

**HR1103CS: 6pcs 7AH/9AH,2U**

**Digital charger (1-12A)**

**External battery pack (optional)**



HT3110XL

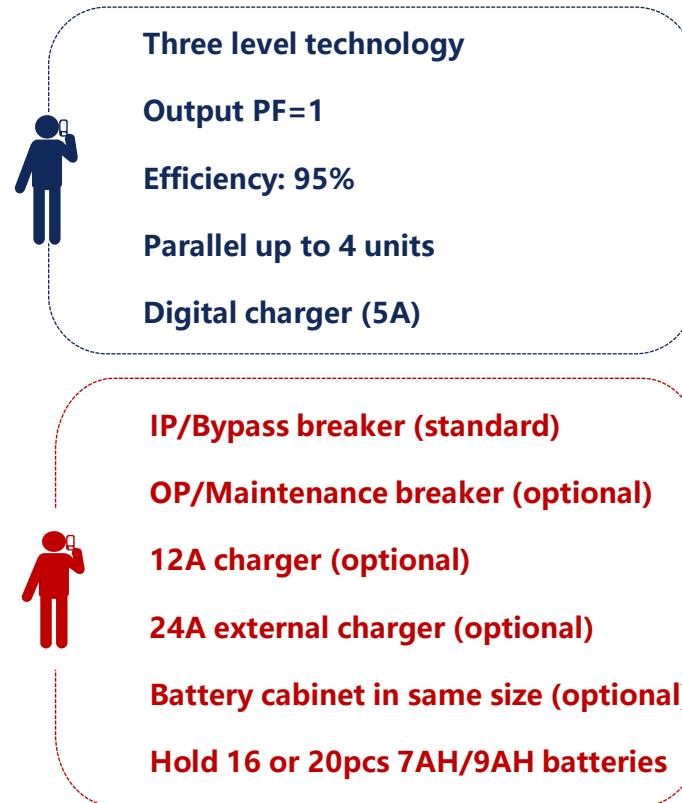
- Three level technology
  - Output PF=1
  - Efficiency: 95%
  - Parallel up to 4 units
  - Digital charger (5A)
- 
- IP/Bypass breaker (standard)
  - OP/Maintenance breaker (optional)
  - 12A charger (optional)
  - 24A external charger (optional)
  - Battery cabinet in same size (optional)



HT3115XL/HT3120XL



HT1106XL/HT1110XL



HT1106XS/HT1110XS



**HT1101CL/HT1101CS**

**HT1102CL/HT1102CS**

**HT1103CL/HT1103CS**

**Output PF=1**

**Automatic fan speed adjustment**

**LED+LCD display**

**Charger:**

**Standard backup type 1A**

**Long backup type 8A**

**Efficiency: 1k 94.5%, 2k 95%, 3k 95.5%**

**Battery:**

**HT1101CS: 3pcs 7AH/9AH**

**HT1102CS: 6pcs 7AH/9AH**

**HT1103CS: 8pcs 7AH/9AH**

**External battery pack (optional)**



# HTC11 Series (1-3kVA)

## Specification:

220V/230V/240V

50/60Hz

Output PF: 1

Efficiency: >95.5%

Bat. Voltage: 36/72/96VDC



## Overall improvement in performance

Output power factor: 0.9→1

System efficiency:

1K: 87%→94.5%

2K: 91%→95.5%

3K: 90%→95.5%

Overload capability:

105%~130% for 1 mins

150% for 30s

→

102%~110%: 30mins

110%~125%: 10mins

125%~150%: 30s



# HT11 Series 1-3kVA Tower Online UPS



**HT1101L/HT1101S  
HT1102L/HT1102S  
HT1103L/HT1103S**



**Output PF=0.9**

**Automatic fan speed adjustment**

**LED+LCD display**

**Charger:**  
**Standard backup type 1A**  
**Long backup type 8A**



**Battery:**

**HT1101S: 3pcs 7AH/9AH**  
**HT1102S: 6pcs 7AH/9AH**  
**HT1103S: 8pcs 7AH/9AH**

**External battery pack (optional)**

# HM Series 40–400kVA Modular Online UPS (480V/480V)

**inv**



**40kVA power module**  
Output PF is 1



**HM080/50X**



**HM160/40X**



**HM240/40X**



**HM320/40X**



**HM400/40X**

# DTX33 Series 10-30kVA Tower Online UPS



Output PF is 1



**DT33010XL (L)  
DT33010XS (R)**



**DT33015/20/30XL (L)  
DT33015/20/30XS (R)**



# DTC33 Series 15-40kVA Tower Online UPS

220V Output PF is 1



DT33015/20CS



DT33030/40CS



## Conformal Coating



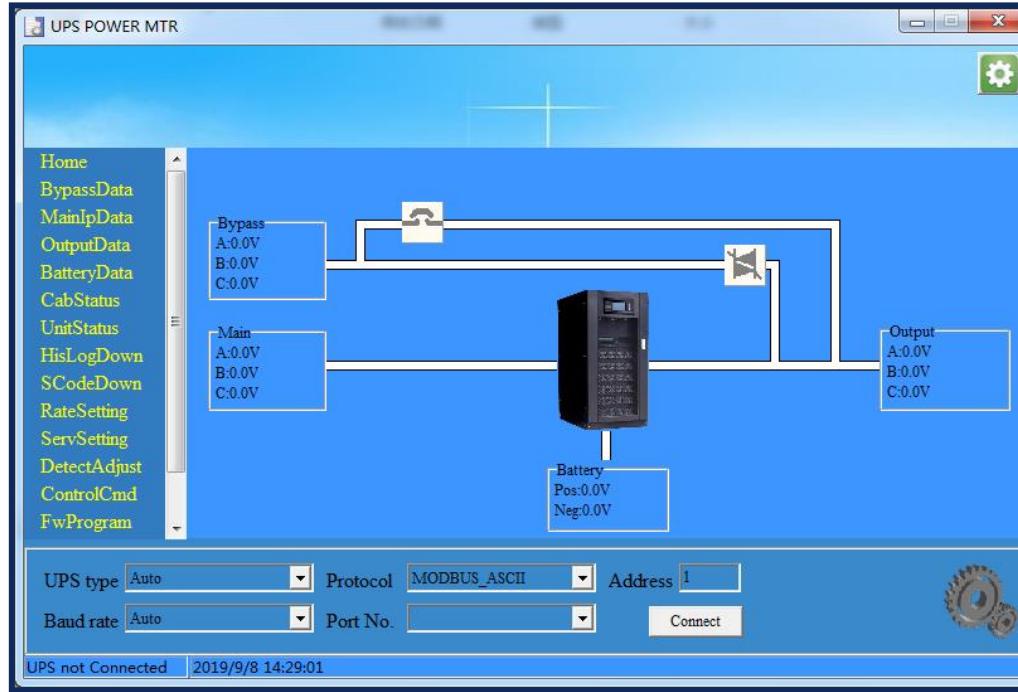
Before  
Before



After  
After

All the PCBs are protected by conformal coating , which guarantees high reliability under different circumstances

## Smart monitoring—MTR system



MTR system support all INVT Products with interface of RS232, RS485 and USB



# New Product line

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- PM100D Series
- DTC11 Series (1-3kVA)
- HTX11 Series(6-20kVA)
- HT33D Series
- HTC11 Series(1-3kVA)
- MDC,Prescision Air conditioner



# RM100D Series (600/800/1000kVA)

## Specification:

380V50/60Hz

Output PF: 1

Efficiency: >96%

Bat. voltage:  $\pm 240V$



**PM100D (4U)**



**RM600/100D Front**

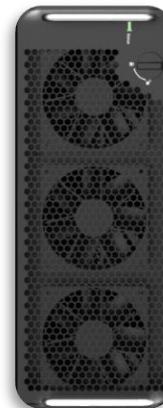


**RML600/100D Rear**





# HT33D Series (120-200kVA)



## Bypass & Monitoring part

Maintenance bypass breaker,  
Communication Interface

## Power Module

60/80/100kVA Power Module \*2  
(Hot swappable)



# DTC11 Series (1-3kVA)

## Specification:

Single phase 110V/120V

50/60Hz

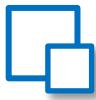
Output PF: 1

Efficiency: >93.5%

Bat. Voltage: 36/72/96VDC  
24/48/72VDC

Charging current: 1-12A settable





**MDC**

**iSmart Series**



**small data center   medium data center**

**1 cabinets**

**2-15 cabinets**

**iTalent Series**



**Dual Row data center**

**Up to 48 cabinets**

**iLegend Series**



**Container Data center**



# Product Overview (Split type)



## Large Room AC



**VCA Series**

25kW~120kW inverter

## Small station AC



**VCA Series**

5kW~20kW inverter

## In-row AC



**VCR Series**

12.5kW~60kW inverter

## Rack AC



**VCS Series**

3.7kW~12.5kW inverter

## Outdoor unit



**VCP Series**

5kW~180kW



# Product Overview (Integrated Type)



## Rack AC



### VCS Series

3.7kW  
Inverter & fixed freq.

## Energy Storage System Cooling



### VCE Series

7~17 kW Inverter  
3~5 kW fixed freq.

## Energy Storage System Liquid Cooling



Front view

Rear view

### VCEW Series

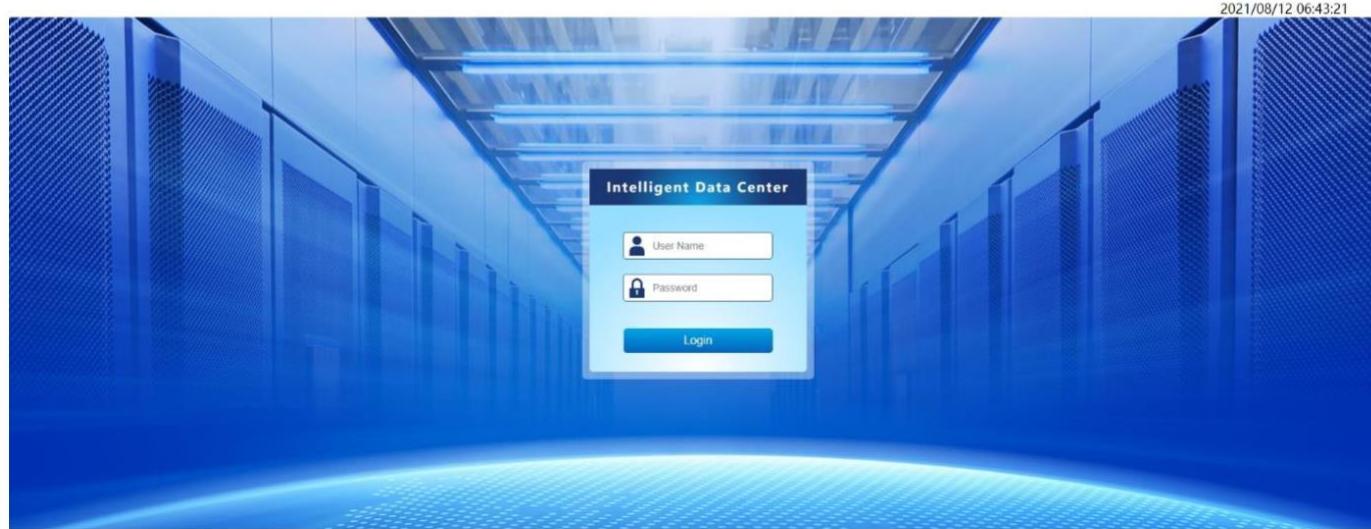
5~15 kW



# IOT Screen

Log in to the Web UI in ePAD.

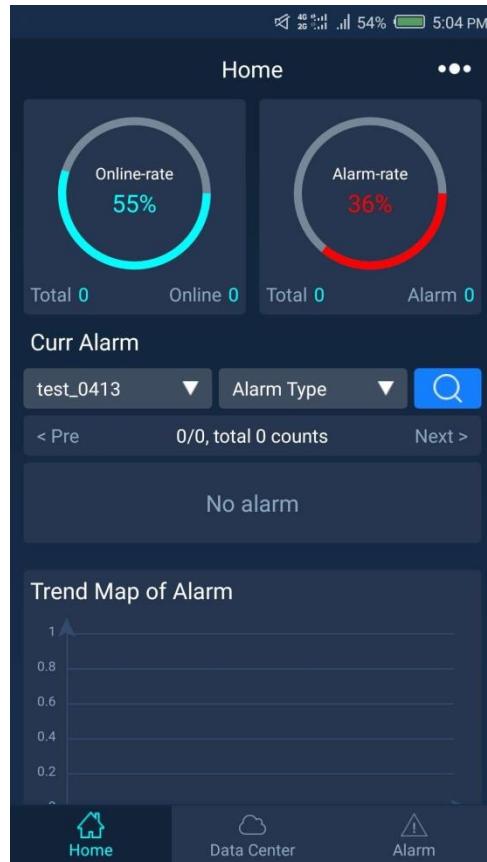
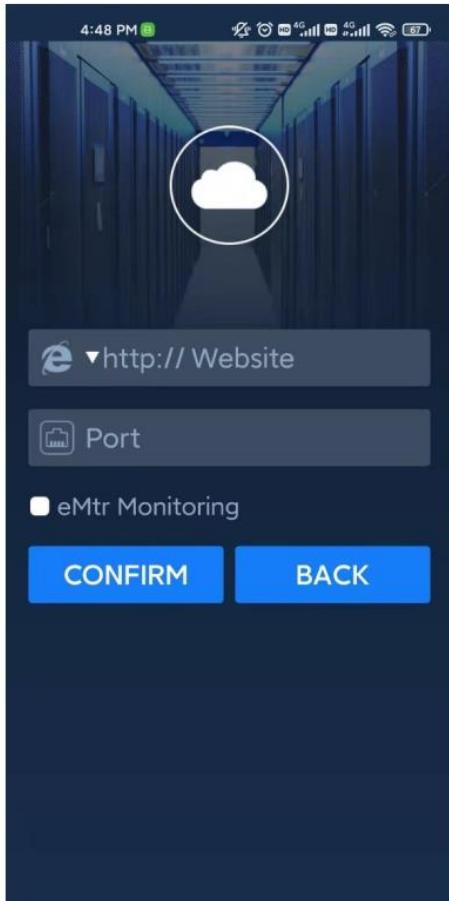
1. Open the browser on your computer and enter <HTTP://IP address of ePAD> (e.g., <http://192.168.0.100>) in the address box, and press Enter to access the Web login page.
2. Figure 2-20 Web Login Page



# Web Monitoring interface



# Mobile APP interface



This screenshot shows the 'Data Center' screen of the mobile application. It has a header with a back arrow and three dots. The main content is divided into two sections: 'Air conditioner' and 'Temperature and humidity'. The 'Air conditioner' section lists four units (1#, 2#, 3#, 4#) with their respective return air temperature (28.6, 28.2, 31.1, 30.0) and air supply temperature (27.9, 27.5, 26.1, 18.8). The 'Temperature and humidity' section lists four units (1#, 2#, 3#, 4#) with their respective temperature (30.3, 31.6, 31.5, 32.7) and humidity (47.7, 44.7, 47.7, 44.7). Each data item is accompanied by a small green or red triangle icon.

Category	Unit	Parameter	Value
Air conditioner	1#	Return air tem...	28.6
	1#	Air supply tem...	27.9
	2#	Return air tem...	28.2
	2#	Air supply tem...	27.5
	3#	Return air tem...	31.1
	3#	Air supply tem...	26.1
	4#	Return air tem...	30.0
	4#	Air supply tem...	18.8
Temperature and humidity	1#	temperature(°C)	30.3
	1#	humidity(%RH)	47.7
	2#	temperature(°C)	31.6
	2#	humidity(%RH)	44.7
	3#	temperature(°C)	31.5
	3#	humidity(%RH)	47.7
	4#	temperature(°C)	32.7
	4#	humidity(%RH)	44.7

# Centralized monitoring of the Internet of Things, eSite centralized monitoring system.



# Power Solution Specialist

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Website



Wechat



Tik-tok

