

INVT in Bolivia



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03 New Product

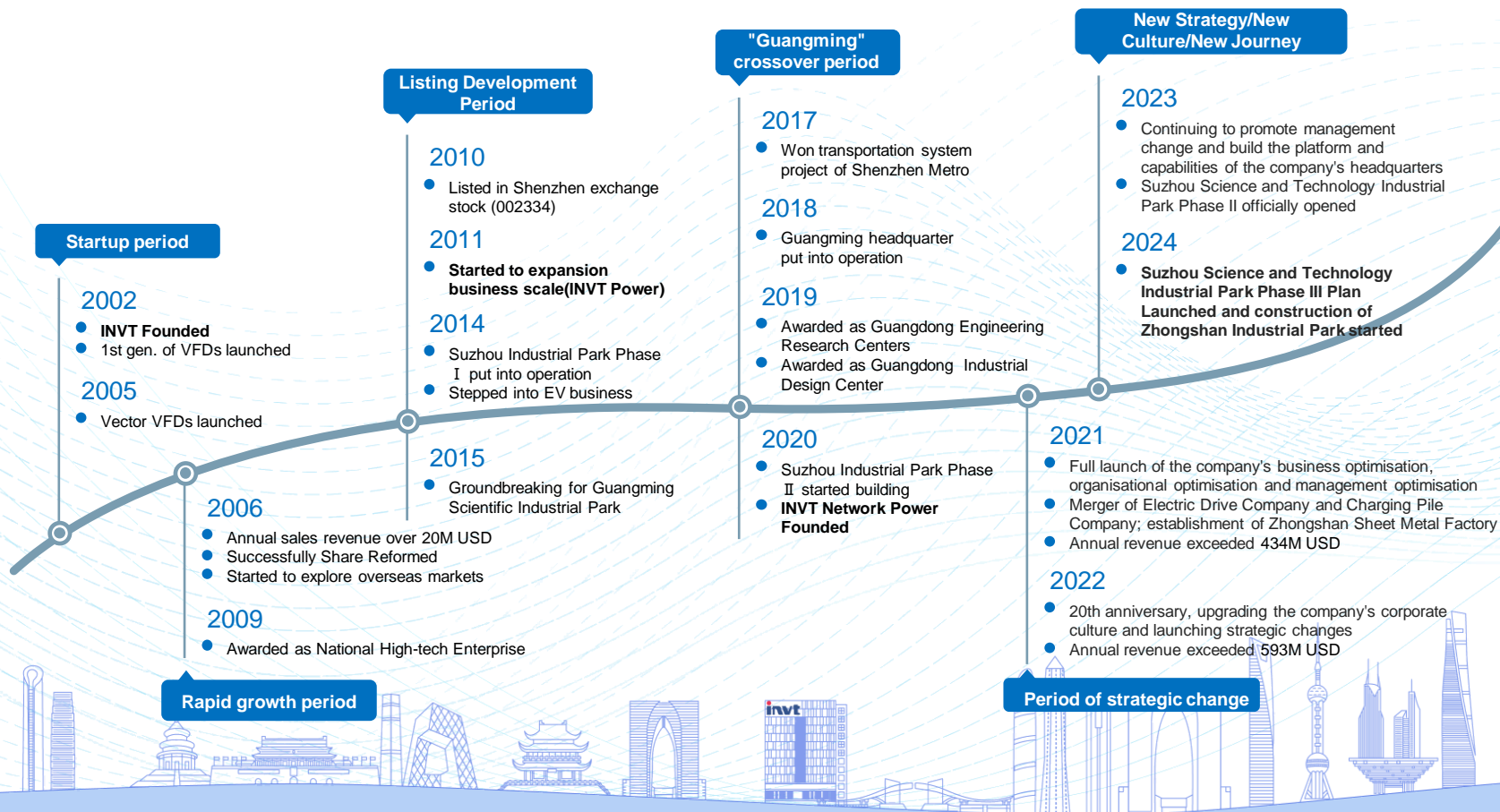
01

INVT Homework

- 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)





- 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%



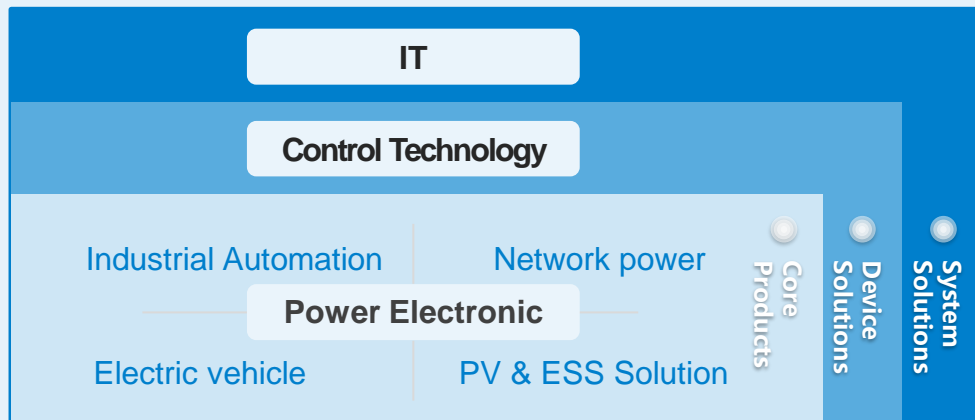
INVT Institute for Industrial Automation and Electric Power

Shenzhen Key Enterprise Research Institute

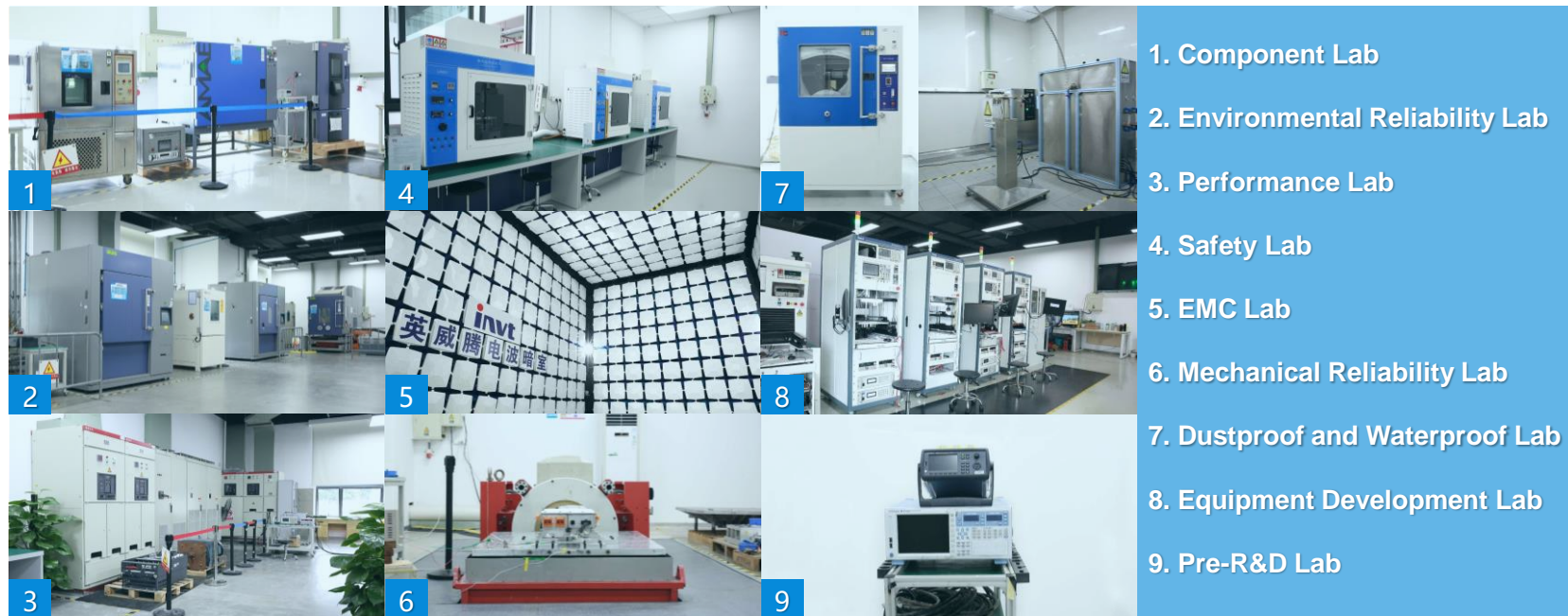
Informatization | Digitalization | Digital Intelligence | Digital Governance

 哈爾濱工業大學 HARBIN UNIVERSITY OF TECHNOLOGY	Cooperation with universities	Programme cooperation	 TEXAS INSTRUMENTS	 Infineon
 清華大學				
 東南大學				
 Underwriters Laboratories	Institutional cooperation	Industrial cooperation	 ZPMC 上海振华重工	 中冶京诚
 ITA				

Open R&D system, strong university-enterprise alliance



Concurrent moving in three technological directions to build system solutions



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

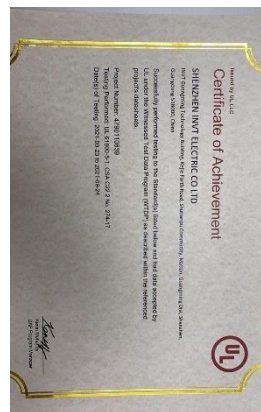
Environmental Management System: ISO14001:2015

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 Environment 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



Factory



Shenzhen Fuyong Industrial Park

Product Line: Network Power Products
and EV Driver

Production Capacity: 800,000+ units/year



Suzhou Scientific Industrial Park

Product Line: Automation Products

Production Capacity:

2,000,000+ units/year



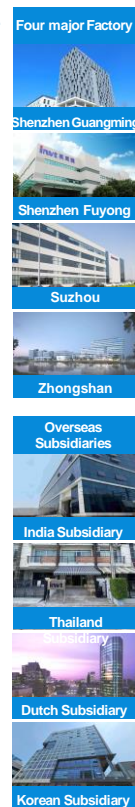
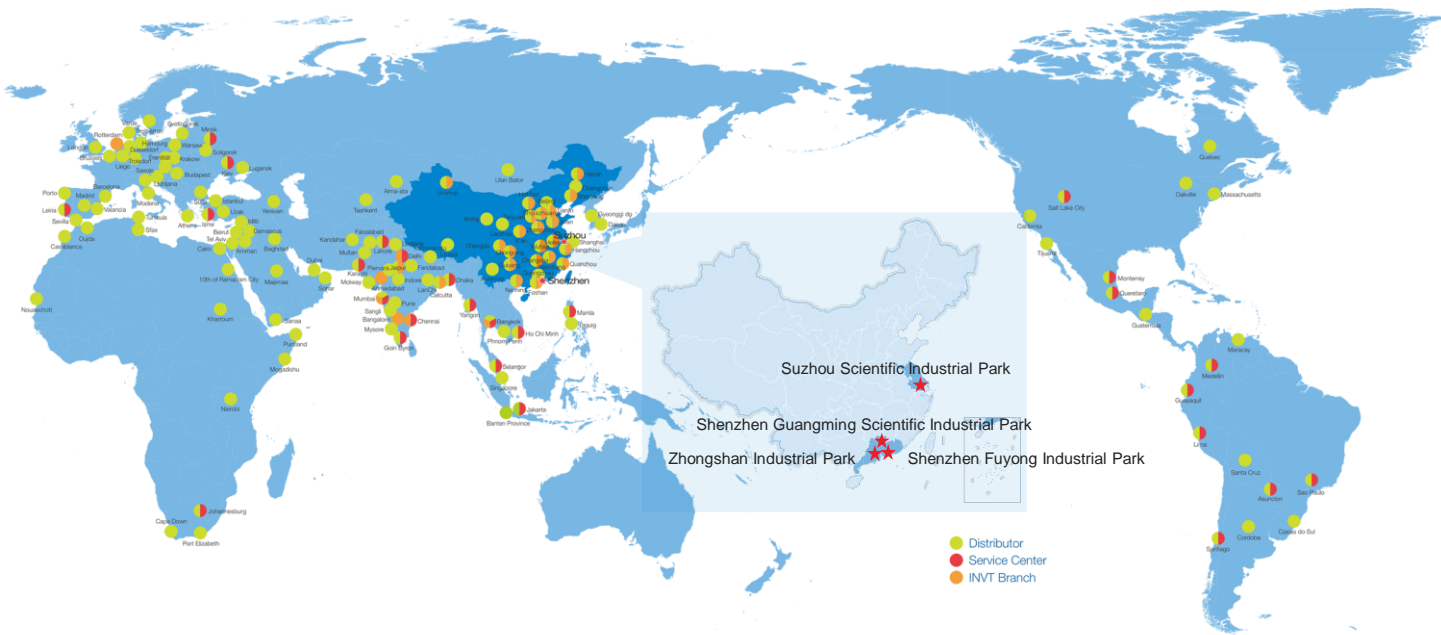
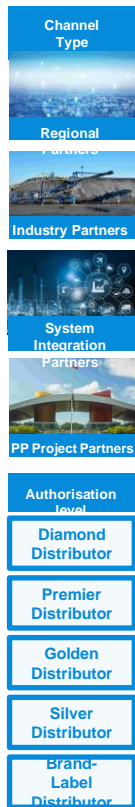
Zhongshan Industrial Park

Product Line: Network Power Products

Production Capacity:

2,000,000+ units/year

Marketing Network



100+
Countries

600+
Distributors

16
Domestic
Regions

8
Overseas
Regions

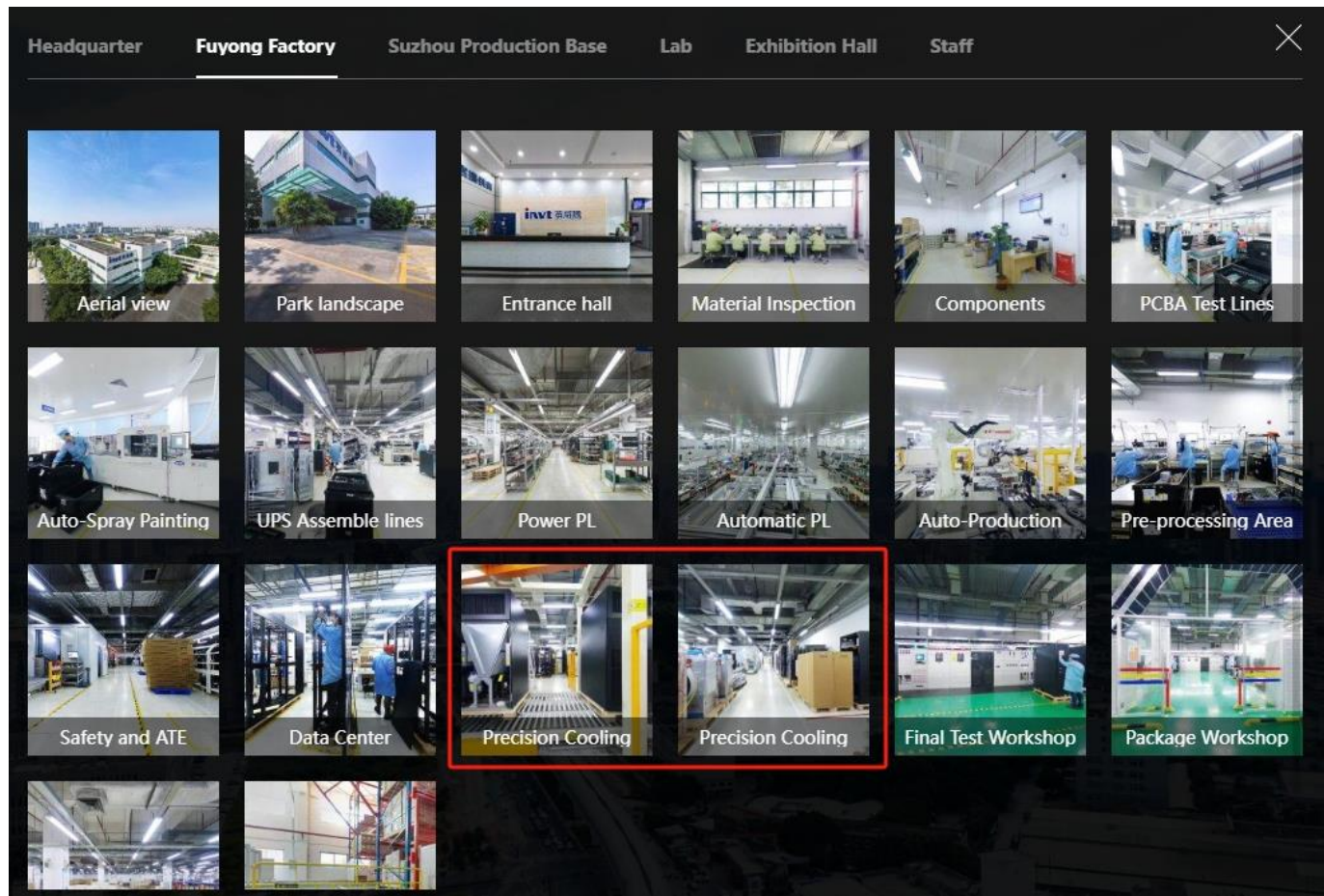
4
Overseas
Subsidiaries

40+
INVT
Branches

4
Factories

100
Service
Centers

— VR Visiting https://www.720yun.com/t/5evkubimg8q?scene_id=107720227





Main businesses

Industrial Automation



Variable Frequency Drive | Servo System |
Motion Controller | IoTs

Electric Vehicle



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

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

Network Power



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

PV & ESS Solution



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

02

INVT UPS

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)

RM Series 50–500kVA Modular Online UPS



50kVA power module
Output PF is 1



RM100/50X



RM200/50X



RM300/50X



RM500/50X

RM Series 40–400kVA Modular Online UPS



40kVA power module
Output PF is 1



RM080/40X



RM160/40X

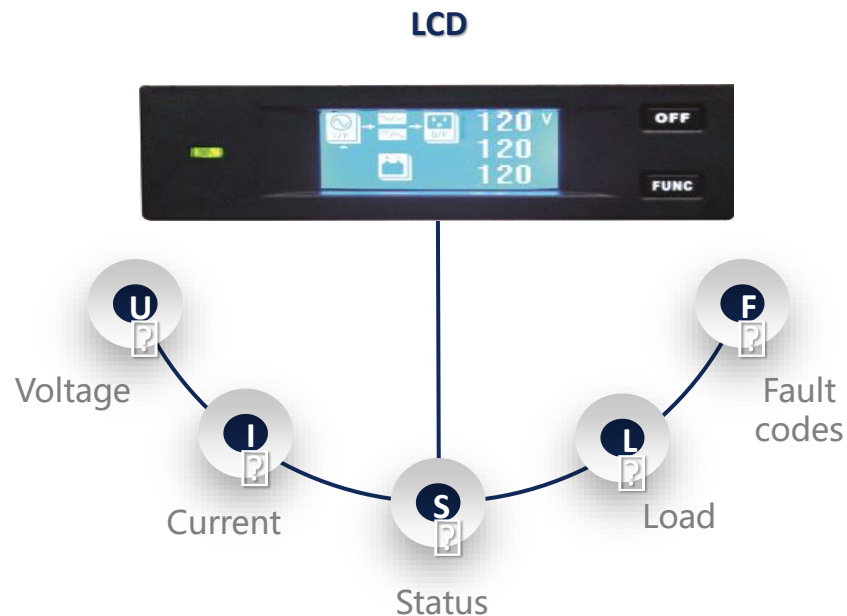
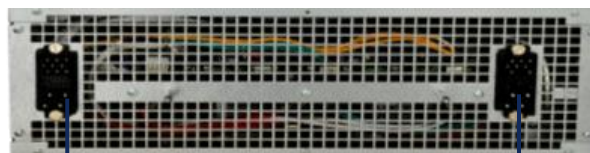


RM240/40X



RM400/40X

PM50X 50KVA/50KW Power Module



RM Series 30-300kVA Modular Online UPS



30kVA power module
Output PF is 1



RM180/30X



RM300/30X



RM600/30X

RM Series 25–500kVA Modular Online UPS



25kVA power module
Output PF is 1



RM150/25X



RM250/25X



RM500/25X

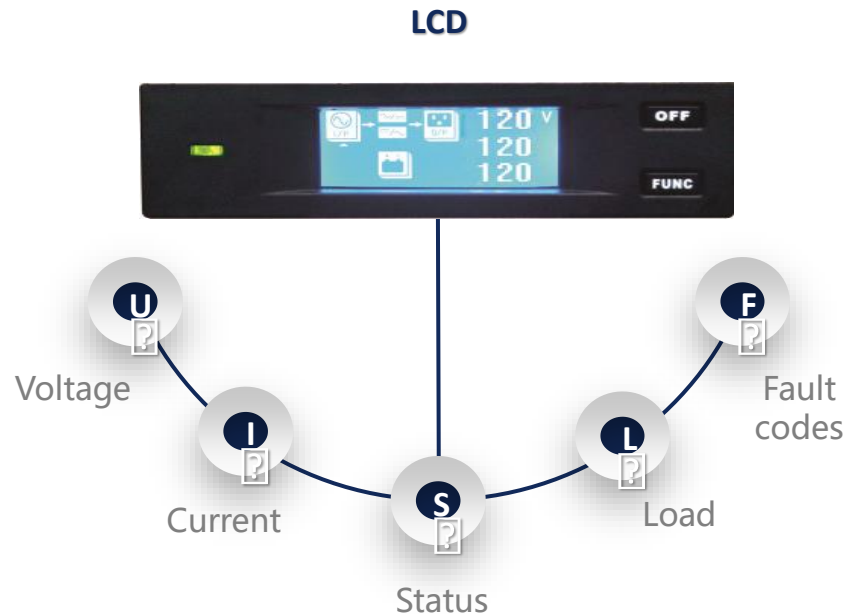
PM30X 30KVA/30KW Power Module



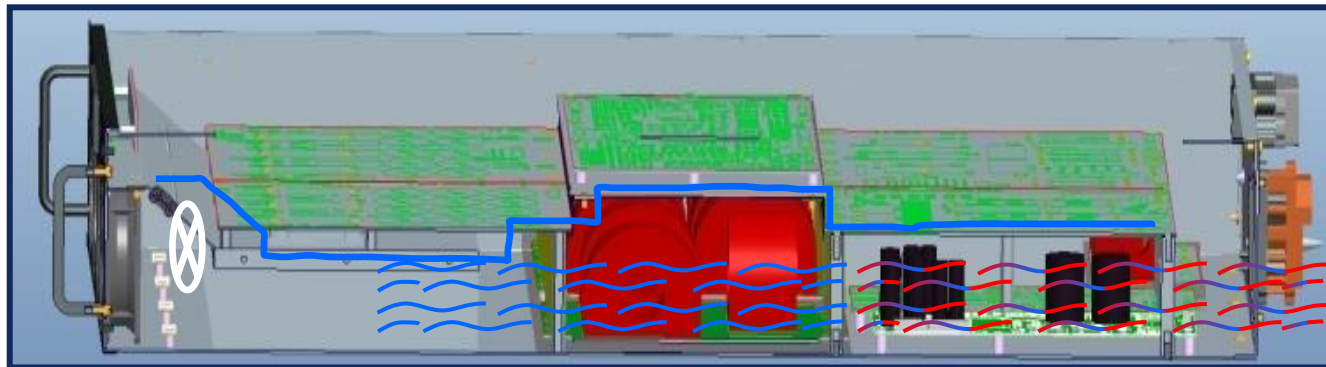
Front view



Rear view



Isolated air flow

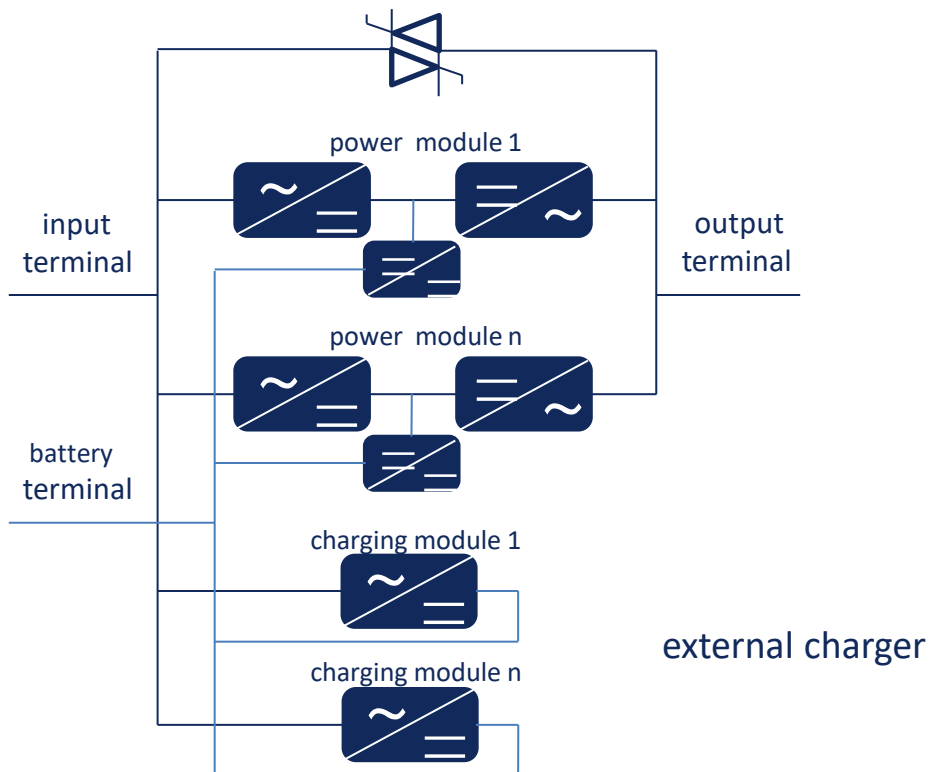


Air flow channel
and PCB are
isolated



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



3U



Mimic LED

Fans

Front view



Connector

Rear view

IGBT

Modular

PF

0.9

height

3U

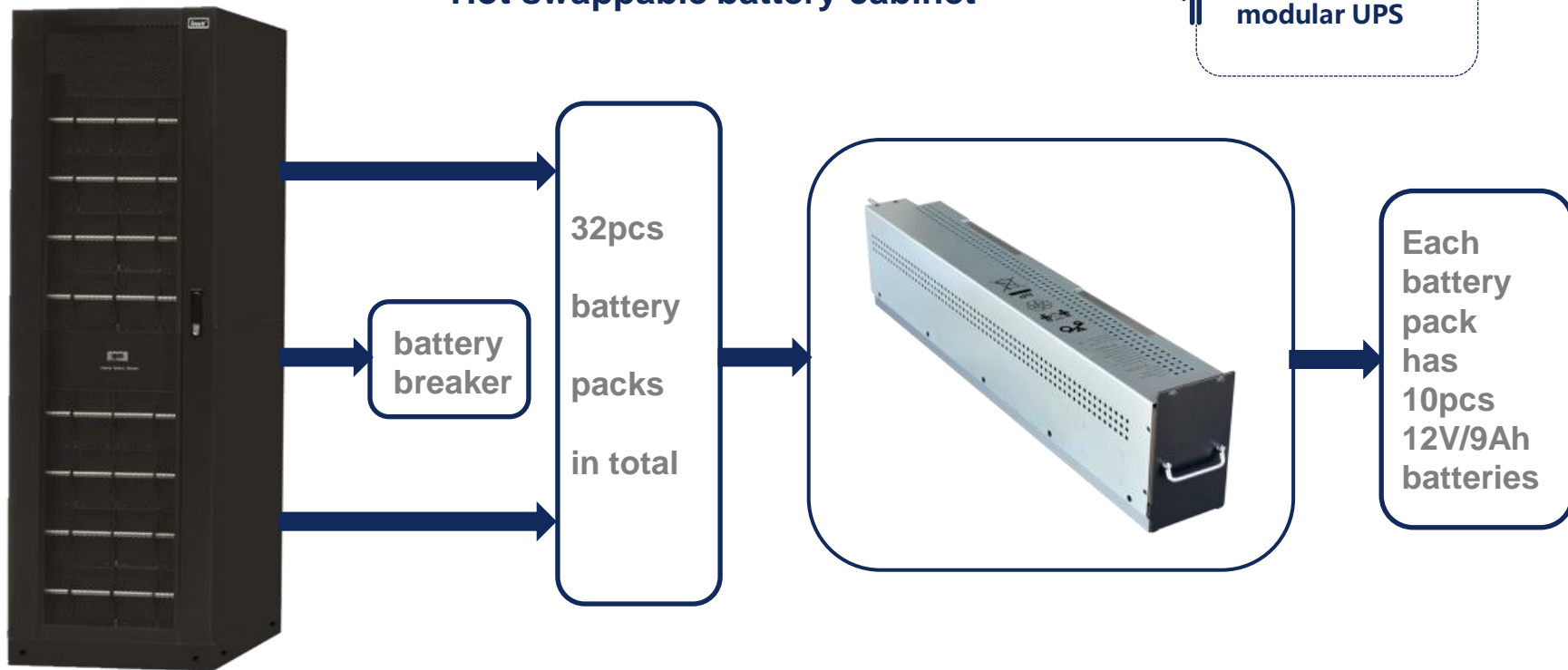
weight

22kg

Hot swappable battery cabinet



Suitable for all
modular UPS



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

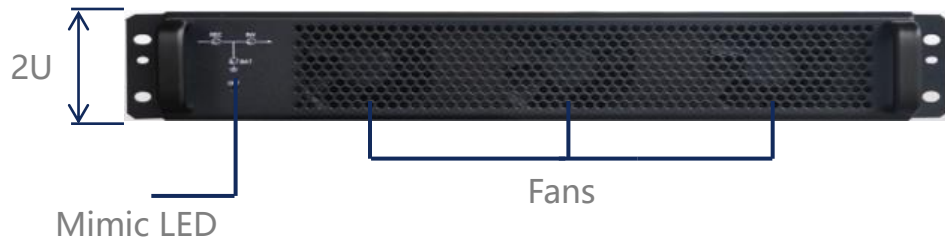
436*590*85

height

2U

weight

15.3kg



Front view

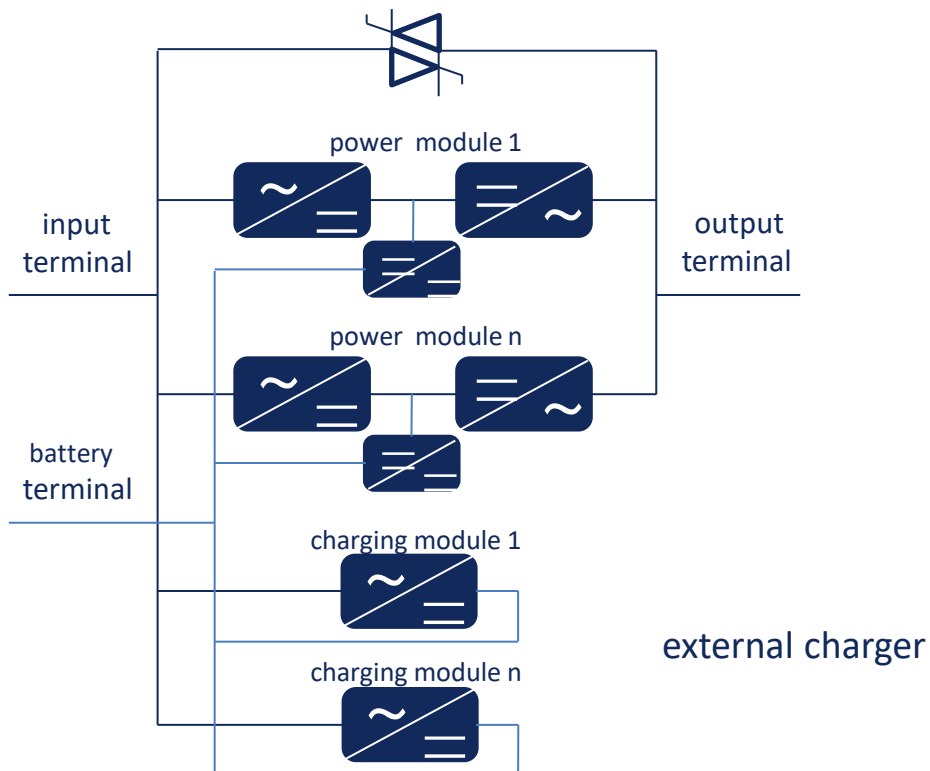


Connector

Serial port
For firmware updating

Rear view

15A Smart Charger Module



Size same as PM10X

Hot swappable

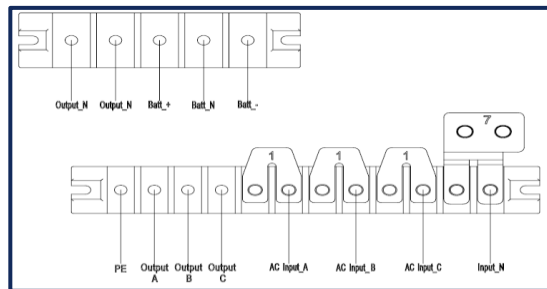
0-15A adjustable



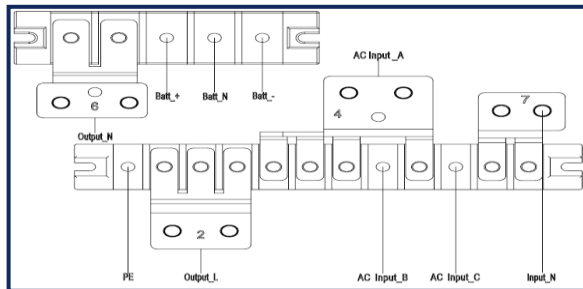
Support Rack Mounted Design



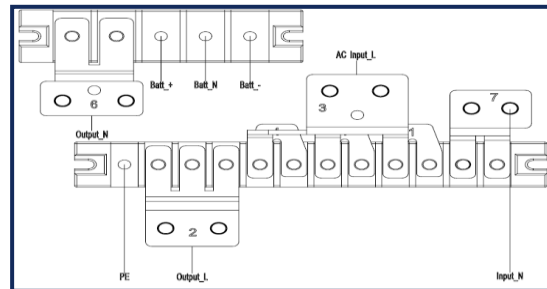
Flexible configuration



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

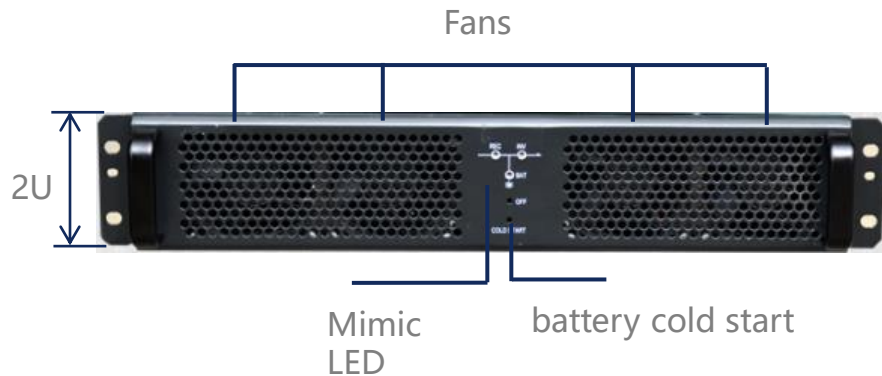
436*677*85

height

2U

weight

18kg



Front view



Connector

Rear view

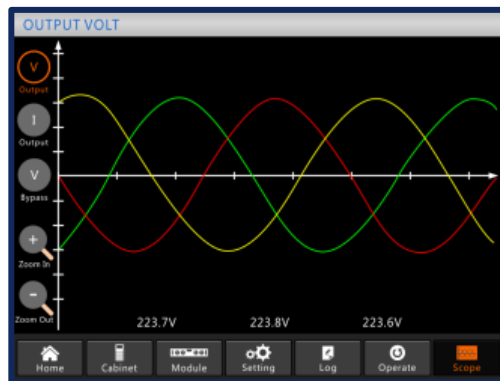
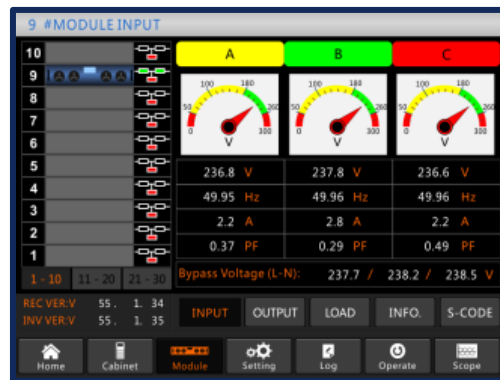
A. Friendly HMI

10.4" touch colorful LCD screen

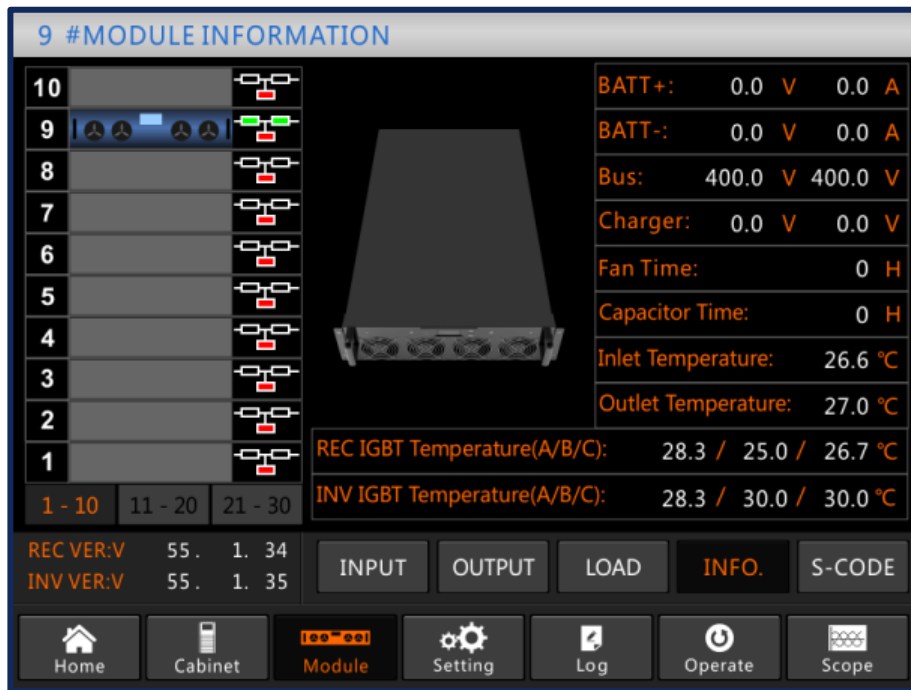
Multi languages to select

Graphic display

896 history logs



B. Intelligent Monitoring Management

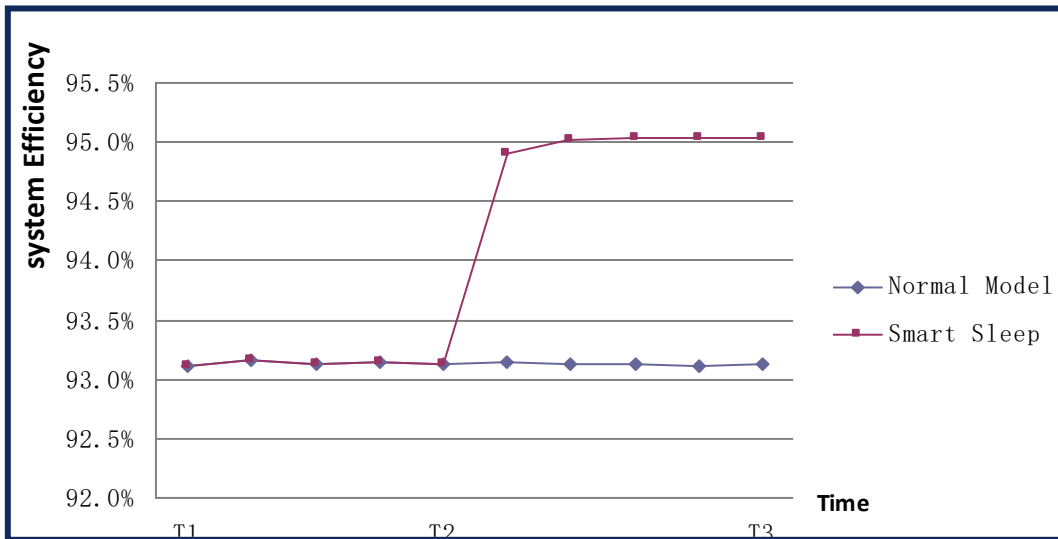


Intelligent battery charger

Running time of critical components

Thermal IGBT temperature in real time

C. Smart Sleep function

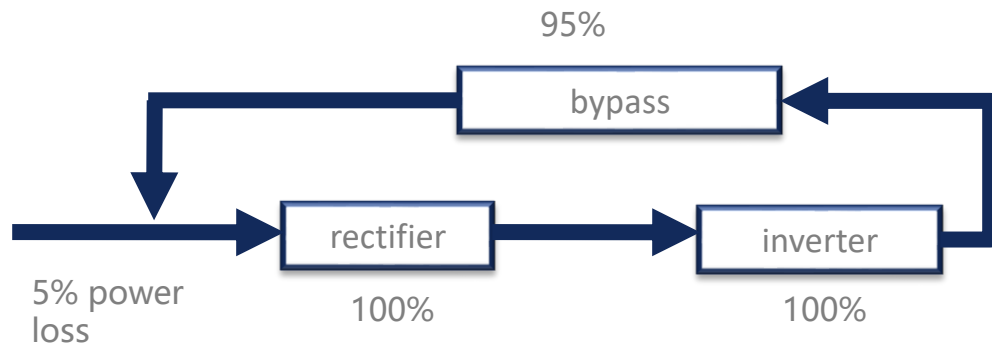


increase system efficiency
when in low load

Easy setting, friendly for
customer

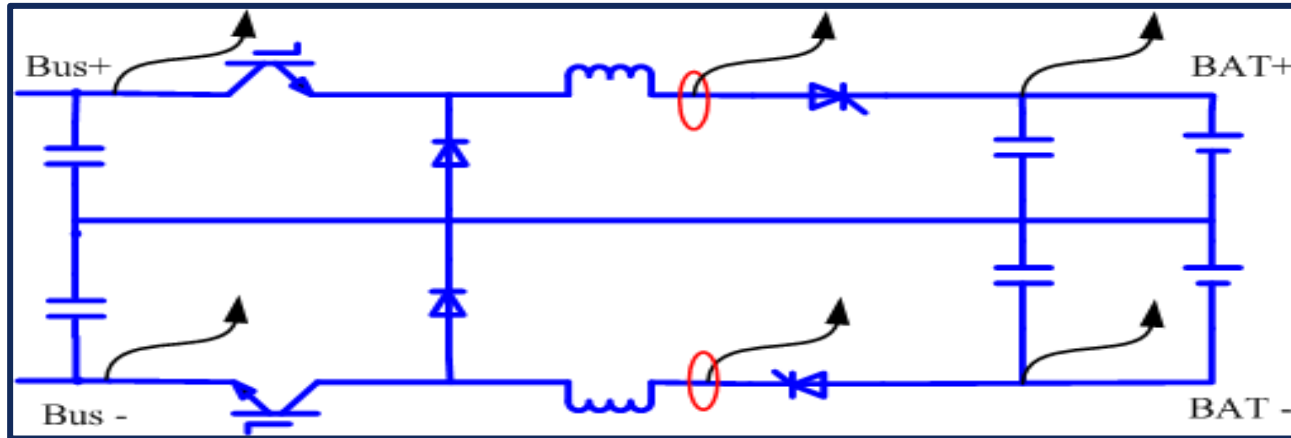
Power modules working in
rotation, prolong life time

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: $20\% \times \text{Power}$, 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



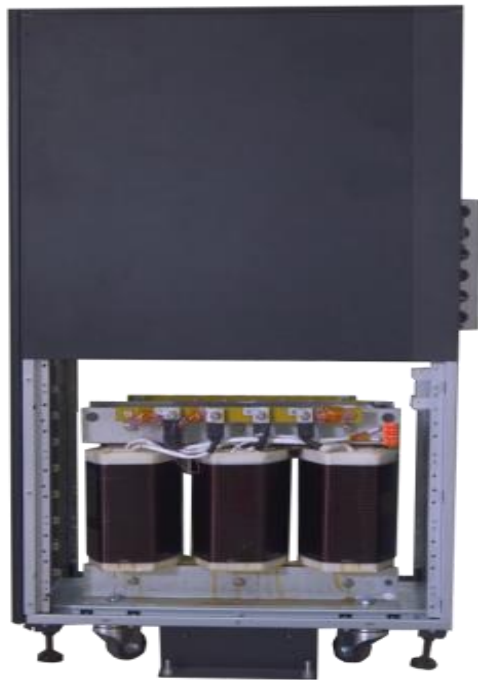
HT33010/15XL (L)
HT33010/15XS (R)



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



HT33040XL (L)
HT33040XS (R)



HT33010/20/30/40X-TX

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

HT33 Series 60-120kVA Tower Online UPS



Based on 30kVA
power module

Output PF=1



HT33060X



HT33090X/HT33120X

HT33 Series 80-500kVA Tower Online UPS



Based on 50kVA
power module

Output PF is 0.9



HT33060X
HT33100X



HT33150X
HT33200X



HT33250X
HT33300X



HT33400X
HT33500X

HR33 Series 10-40kVA Rack Online UPS



Three level technology

Output PF=1

Efficiency: 96%

3U height

Parallel up to 4 units



Support dual input
5" Colorful touch LCD
Battery cold start
Configurable as 3/1
Single and parallel PDU
Tower installation
Rack battery pack



HR33010CL / HR33015CL/HR33020CL/HR33025CL

HRX11 Series 6-10kVA Rack Online UPS



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**



Output PF=0.9

Support tower installation

Automatic fan speed adjustment

LED+LCD display



Battery:

HR1101S: 3pcs 7AH/9AH

HR1102S: 6pcs 7AH/9AH

HR1103S: 8pcs 7AH/9AH

Digital charger (1A)

External battery pack (optional)



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

HTX11 Series 6-10kVA Tower Online UPS



HT1106XL/HT1110XL



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)

Hold 16 or 20pcs 7AH/9AH batteries



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 \rightarrow 1

System efficiency:

1K: 87% \rightarrow 94.5%

2K: 91% \rightarrow 95.5%

3K: 90% \rightarrow 95.5%

Overload capability:

105%~130% for 1 mins

150% for 30s

\rightarrow

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)



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



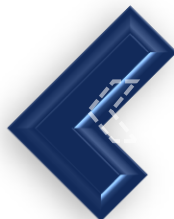
DT33030/40CS



Conformal Coating



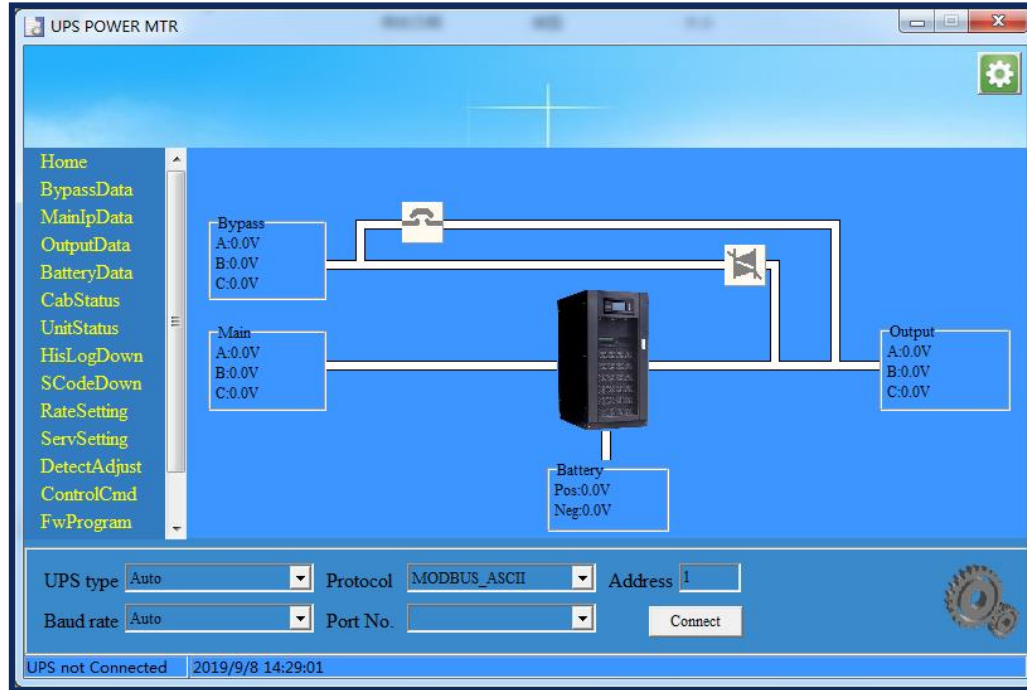
Before



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

03

New Product line

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



iSmart Series



iWit Series



iTalent Series



iLegend Series



small data center medium data center

Dual Row data center

Container Data center

1 cabinets 2-15 cabinets

Up to 48 cabinets



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

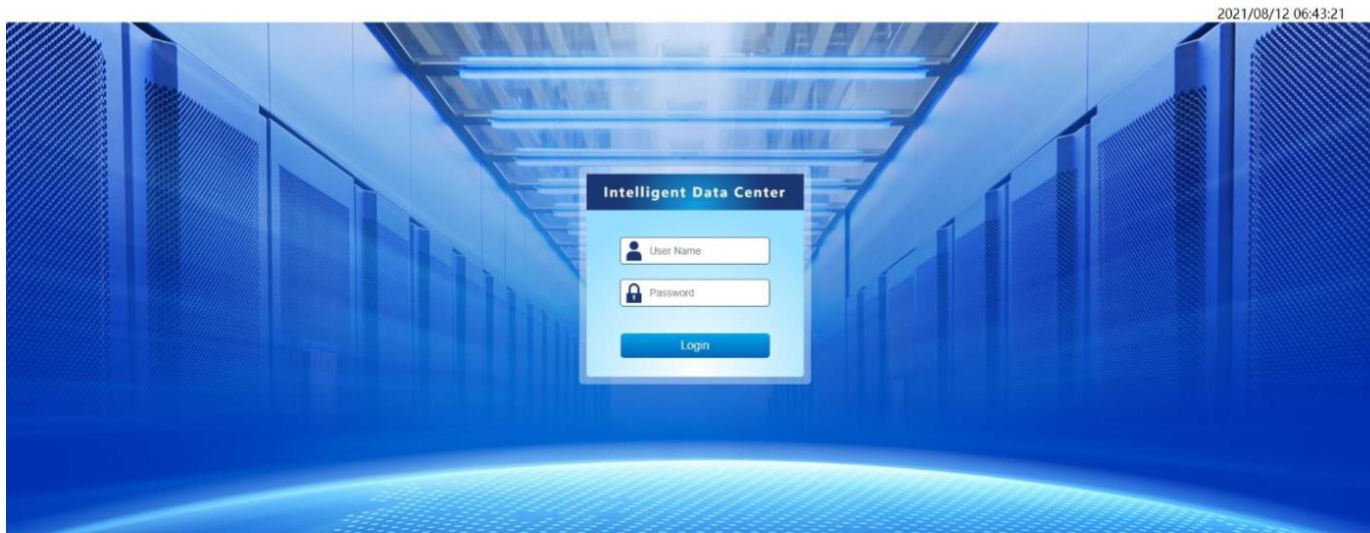
5~15 kW



IOT Screen

Log in to the Web UI in ePAD.

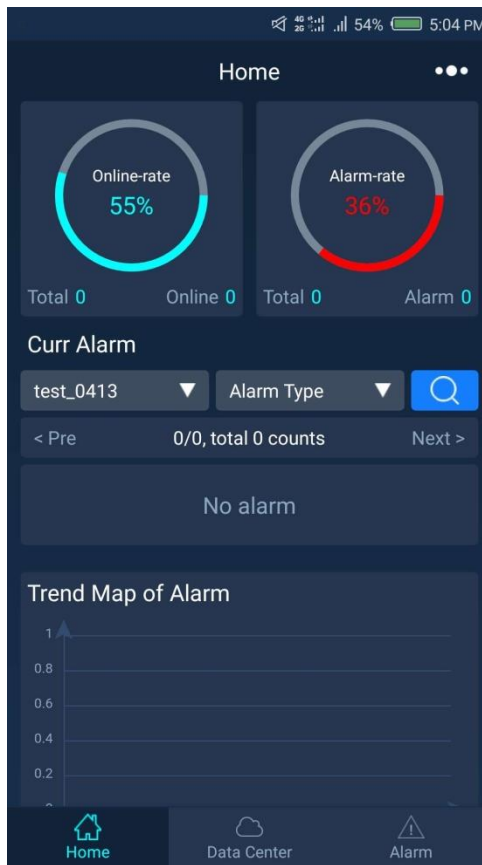
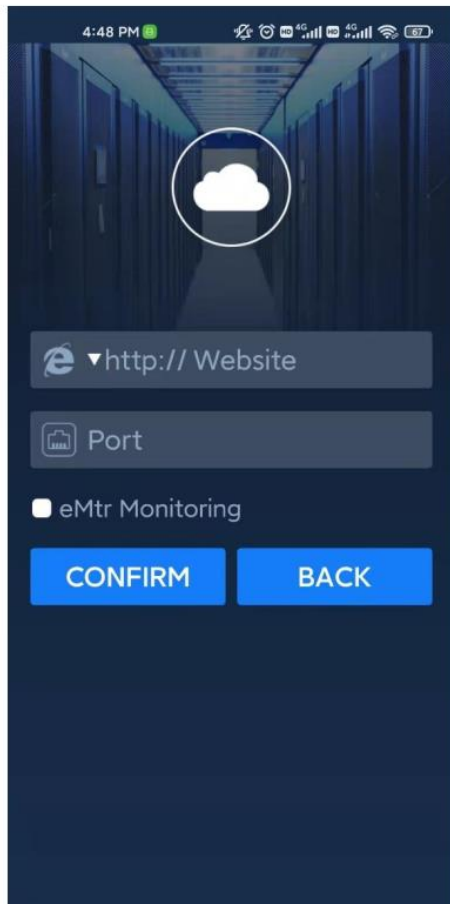
1. Open the browser on your computer and enter [HTTP://IP address of ePAD](http://IP address of ePAD) (e.g., <http://192.168.0.100>) in the address box, and press Enter to access the Web login page.
2. Figure 2-20 Web Login Page



Web Monitoring interface



Mobile APP interface



The Data Center screen shows a list of air conditioners under the heading 'Air conditioner'. A table displays temperature and humidity data for five units. A 'Temperature and humidity' section at the bottom provides a summary of the data.

Unit	Return air temp(°C)	Air supply temp(°C)
1#	28.6	0.0
2#	28.2	27.9
3#	31.1	26.1
4#	30.0	18.8
5#	26.2	25.5

Unit	temperature(°C)	humidity(%RH)
1#	30.3	47.7
2#	31.6	44.7
3#	31.5	
4#	32.7	

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



Power Solution Specialist

Contact information

Email: upssales@invtt.com.cn; support.inpc@invtt.com.cn

Service hotline: 0755-23535123

Fax: 86-755-26782664

Website: www.invtt-power.com.cn;
www.invtt-networkpower.com.cn

Address(Headquarters): 5F, Building A, INVT Guangming Technology Building, Songbai Road, Matian, Guangming District, Shenzhen, PR China.



Website



Wechat



Tik-tok

