

SMART
VOLTAGE
CONTROL



RT SERIES ONLINE HIGH FREQUENCY UPS

RT Series Online High Frequency UPS

The 1-10KVA RT series Online high frequency UPS takes the three-level technique and soft switch design, with the active power factor correction (APFC) to make the input PFC can be higher as 0.99. The new design make our RT series with high energy density ratio, reduce the UPS machine size very much, and also less occupy the space in the server room. The digital control make UPS with much more stable system, and also have the well ability of self-defensive and fault diagnosis.

This series UPS can provide better solution for the different power problems, such as transient voltage sag, damped oscillation, high voltage pulse, surge voltage, harmonic distortion, noise wave interference, frequency fluctuation and others. Providing more reliable protection for the application and UPS itself.

RT1-10KVA Field of Application

- IT and Network equipment
Small and Medium-sized data centers
Computer Server room
Production line control in factory
- Embedded and Automatic Control System
Telecommunication base station Automatic control system
Electrical and railway signaling systems
Security system
Television broadcast system
- Office and Business Equipment
Office computer and Printer
Scanner and MPOS



Product Function and Features

Green Power design for energy saving and environmental protection

- Different power configuration flexibility to achieve a multi - purpose machine, power customized available;
- Selectable digital charger from 1A ~12A, match for different appliance;
- Wide input voltage range: 208/220/230/240V for option;
- High efficiency up to 95.5%, lower power loss and save cost;
- Output power factor up to 1.0 ,as an industry leader, super high load efficiency;
- Green power ECO mode, power efficiency up to 98.5%
- Smart adjustable setting, support voltage compensation of output to transformer

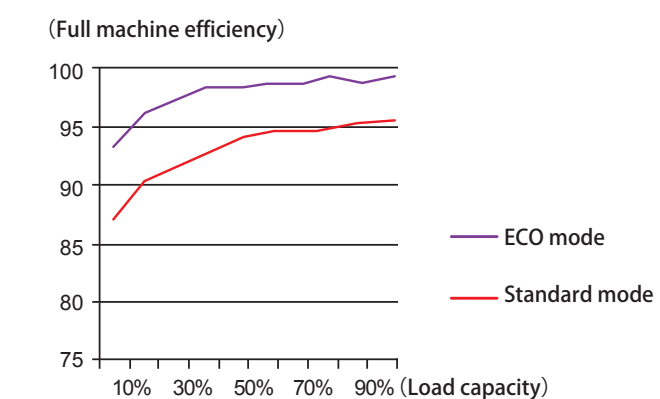


Novel Features Upgraded

With three-level technology and soft switching design, minimizes to reduce switching losses and creates a new generation of more reliable and efficient power products.

Higher efficiency

1-10KVA, the maximum efficiency is up to 95.5%. In ECO mode, the efficiency is up to 98.5%, saving energy and electricity for you.



The diagram of 1-10K efficiency under mains supply

Higher power factor

Input power factor ≥ 0.99 , output power factor up to 1.0, performance with super high load efficiency.

Larger charging current

All models of this series can support 1A~12A charging current, and can flexibly configure battery combinations with different capacitances.

Wider frequency adjustment

Frequency can be setup in 50hz/60hz ± 10 Hz, with wider frequency adjustment range to match the input characteristics of the generator.

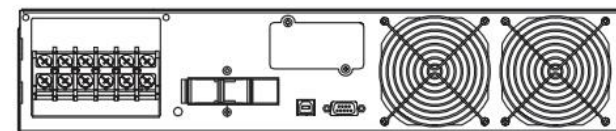
Higher design standards

All models are designed to comply with standards EN/IEC 61000, EN/IEC 62040, GB/T7260, GB/T4943, YD/T1095, TLC, which greatly reduces the interference to the power grid and the equipment used, and protects the user's equipment well.

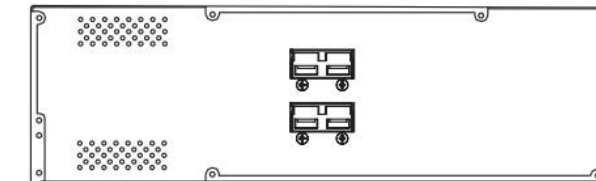
UPS Performance and Features

Can connected with multiple battery pack in parallel.

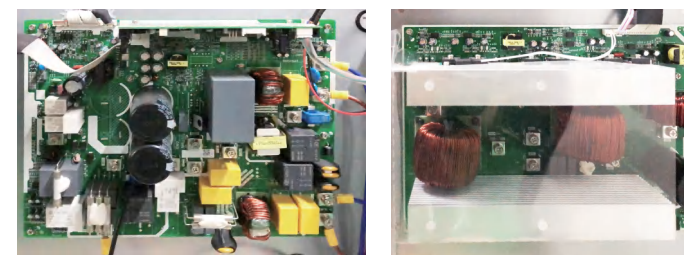
Long back up UPS can be freely connected with the battery pack, not only save the space, we also can increase the battery pack's quantity (Max. 15pcs battery pack), to meet the different users' need.



Rack mount UPS



Battery Pack

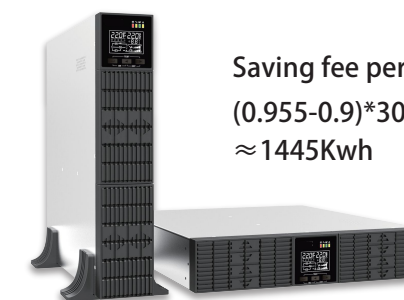
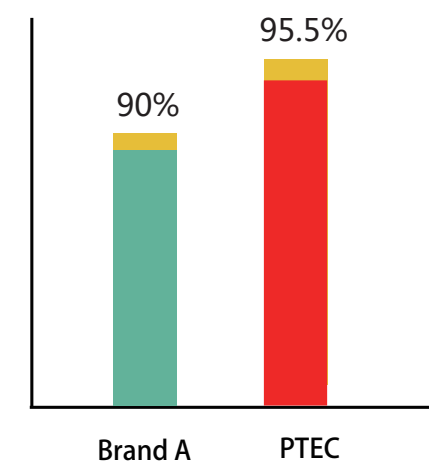


Faster maintenance

The long back up model and the standard model use the same PCBA. It is very simple to connect and easy to maintain, so greatly improve the speed and reliability of maintenance, and users can adjust the required parameters through the LCD.

Save power

At present, the efficiency of some brands in the market is generally between 80% ~ 93%. Take our PTEC 3KVA and 6KVA as a sample, compared with the model which the efficiency is 90% in the market.



Saving fee per year for 3KVA
 $(0.955-0.9) \times 3000W \times 24 \text{ hours} \times 365 \text{ day}$
 $\approx 1445Kwh$

SPECIFICATION 6-10KVA

Model	RT-6K	RT-6KL	RT-10K	RT-10KL
Rated Capacity	0.9 1.0	6KVA/5.4KW 6KVA/6KW	10KVA/9KW 10KVA/10KW	
INPUT				
Input Formats	L+N+PE			
Rated Input Voltage	208/220/230/240VAC			
Voltage Range	110~300VAC (110~176VAC,264~300VAC power limited)			
Frequency Range	50/60Hz±6Hz, ±10Hz(can be setting)			
Input Power Factor	≥ 0.99			
Input Harmonic Distortion	≤ 5% THD(linear load), ≤ 8% THD(non-linear load) PF=0.8			
OUTPUT				
Output Formats	L+N+PE			
Output Voltage	208/220/230/240VAC			
Output Accuracy	± 1%			
Output Frequency	Online mode:according to AC frequency , Battery mode:50/60Hz±1%			
Output Harmonic Distortion	≤ 2% THD(linear load), ≤ 5% THD(non-linear load) PF=0.8			
Output Power Factor	1.0			
Switching Time	0ms (w/o ECO function)			
Load Capacity	AC Mode: 30min@102%~110% Load 10min@110%~130% Load 30s@130%~150% Load 500ms@>150% Load	Battery Mode: 10min@102%~110% Load 1min@110%~130% Load 10s@130%~150% Load 500ms@>150% Load		
Machine Efficiency				
AC Mode	Maximum efficiency 95.5%, Full load efficiency 95%			
Battery Mode	Maximum efficiency 95.3%, Full load efficiency 94.8%(20pcs batteries)			
Charger				
Battery Quantity	Adjustable from 16/18/20pcs,Default 16PCS(Refer 4.4 for details)			
Battery Type	Lead acid battery			
Charge Current	Adjustable from 1~12A(PF=0.8,Adjustable 1~8A),Default 1A			
Charging Mode	Two/Three Period Charging			
WORKING ENVIRONMENT				
Ambient Temperature	0~40°C			
Ambient Humidity	20%~95% (No Condensation)			
Storage Temperature	-15~60°C(Battery:0~40°C)			
Altitude	<1000m,Derating at above 1000m,maximum 4000m,Refer to IEC62040			
DISPLAY				
LCD	Working mode/load/battery power/input/output ect.			
STANDARD & CERTIFICATION				
Standard & Certification	EN/IEC 61000,EN/IEC 62040,GB/T4943,YD/T 1095,TLC etc.			
PHYSICAL				
case size (L*W*H)	Rack mount UPS case size : 438*88*385mm ; Battery Pack case size: 438*88*690mm			
Net Weight(KG)	9.5kg (PF=1.0) Not include bettery pack	10.25kg (PF=1.0) Not include bettery pack		
Gross Weight(KG)	11.45kg (PF=1.0) Not include bettery pack	12.2kg (PF=1.0) Not include bettery pack		
Carton size(L*W*H)	Rack mount UPS case size : 533*507*178 mm ; Battery Pack case size: 570*815*230mm			
COMUNICATION INTERFACE				
INTERFACE	1*USB,1*RS232,1*EPO			

*Product specifications are subject to change without notice.