

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, reducethe 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.

RT1-3KVA Field of Application

•IT and Network equipment

Small and Medium-sized data

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

- ECO mode

- Standard mode

- 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
- 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 power factor

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

Higher efficiency

(Full machine efficiency)

1-3KVA, the maximum efficiency is up to 95.5%. In ECO mode, the efficiency is up to 98.5%, saving energy and electricity for you.

10% 30% 50% 70% 90% (Load capacity)

The diagram of 1-10K efficiency under mains supply

Larger charging current

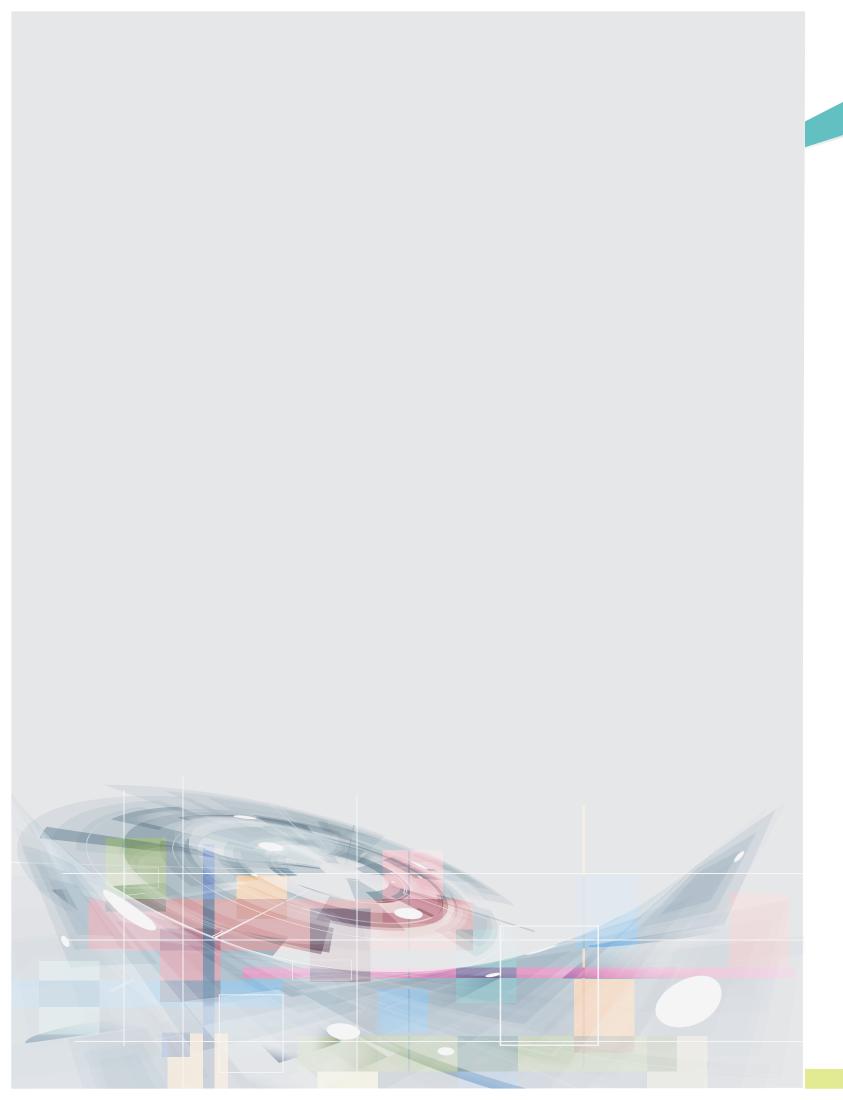
All models of this series can support 1A~12A charging current, and can flexibly configure battery combinations with different capacitances.

Wider frequency adjustment

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



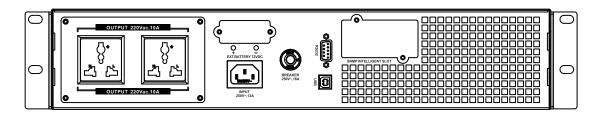
All models are designed to comply with standards EN/IEC 61000, EN/IEC 62040, GB/T7260, GB/T4943, YD/T1095, TLC, which greatly reduces the interference to the power grid and the equipment used, and protects the user's equipment well.



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.





95.5%

PTEC

Brand A

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)*3000W*24 hours*365 day≈1445Kwh



SPECIFICATION 1-3KVA

Model	RT-1K	RT-1KL	RT-2K	RT-2KL	RT-3K	RT-3KL	
Rated Capacity	1KVA /1000W		2 KVA /2000W		3 KVA /3000W(for72V) 3 KVA /2400W(for48V)	3 KVA /3000W	
INPUT							
Input Formats	L+N+PE						
Rated Input Voltage	208/220/230/240VAC						
Voltage Range	110~300VAC (110~176VAC,280~300VAC power limited)						
Frequency Range	50/60Hz±6Hz,± 10Hz (setable)						
Input Power Factor	≥0.99						
Input Harmonic Distortion	on ≤3% THD(linear load), ≤5% THD(non-linear load) PF=0.8						
OUTPUT							
Output Formats	L+N+PE						
Output Voltage	208/220/230/240VAC						
Output Accuracy	±1%						
Output Frequency	AC mode: same as AC ,Battery mode:50/60Hz±1%						
Output Harmonic Distortion	≤1% THD(linear load), ≤3% THD(non-linear load) PF=0.8						
Output Power Factor	1.0						
Transform Time	AC mode to Batt. Mode:0ms,Inverter mode to Bypass mode:4ms						
Load Capacity	AC Mode: 30min@102%~110% Load 10min@110%~130% Load 10s@110%~130% Load 30s@130%~150% Load 200ms@>150% Load 200ms@>150% Load						
Machine Efficiency AC Made							
AC Mode	Full load efficiency		Full load efficiency 95.5%@220VAC		Full load efficiency 95.5%@220VAC		
Battery Mode	Full load efficiency 89.5%@36VDC		Full load efficiency 91.5%@72VDC		Full load efficiency 91.5%@ 96VDC		
Battery Mode	Full load efficiency 89.5%@24VDC Full load efficiency 91.5%@ 48VDC Full load efficiency 91.5%@ 72VDC						
BATTERY Battery Quantity	744 - 2/744 - 2	261/	7414/7416	721/	701	001	
	7Ah x 2/7Ah x 3	36V	7Ah x 4/ 7Ah x 6	72V	7Ah x 4/ 7Ah x 6	96V	
Backup Time	Depend on user's requirement and configuration RT1K-3K: 1.0A(default),1-2A(adjustable) External battery back; RT1KL-3KL: 5.0A(default),1-12A(adjustable).						
Charge Current RTTK-3K: 1.0A(default),1-2A(adjustable) External battery back; RTTKL-3KL: 5.0A(default),1-12A(adjustable)							
Ambient Temperature 0~40°C							
Ambient Humidity	20%~95% (No Condensation)						
Storage Temperature							
Altitude	<1000m,Derating at above 1000m,maximum 4000m,Refer to IEC62040						
DISPLAY	Toooni, betating at above Toooni, maximum 4000iii, herei to iecozo40						
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)	138*8	8*385	438*88*505	438*88*385	438*88*505	438*88*385	
Weight(KG)	10.4/12.4 (1pcs)	5.8 (1pcs)	14.9/23.6 (1pcs)	7.0 (1pcs)	20.5/25.2 (1pcs)	7.4(1pcs)	
Carton size(L*W*H)			533*617*178	533*507*178	533*617*178	533*507*178	
Carton size(L*W*H) 533*507*178 533*617*178 533*507*178 533*507*178 533*507*178 COMUNICATION INTERFACE							
INTERFACE							

1*USB,1*RS232,1*EPO INTERFACE

^{*}Product specifications are subject to change without notice.