



**SINGLE
PHASE**

Stand Alone UPS
and Battery Pack

The digital control makes this UPS a much more stable system, able to self diagnose faults and protect itself.

The UPS offers a better solution for different power problems, such as transient voltage sag, damped oscillation, high voltage pulse, harmonic distortion, noise wave interference, frequency fluctuation, surge voltage and others. It provides more reliable protection for various applications, as well as for the UPS itself.

RTS Series Online High Frequency UPS

The 6 - 10kVA series Online High Frequency UPS combines the three-level technology & soft switch design to reduce switching losses, with the active power factor correction (APFC) which means the input PFC (power factor correction) can be higher than 0.99.



Product Features

- ✓ High Efficiency / Energy Saving System
- ✓ Compact Size
- ✓ Easy Installation and Maintenance
- ✓ Rack mounted or Stand Alone
- ✓ Multiple Batteries in Parallel
- ✓ Wide Input Voltage Range

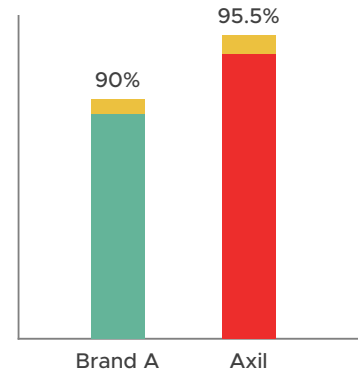
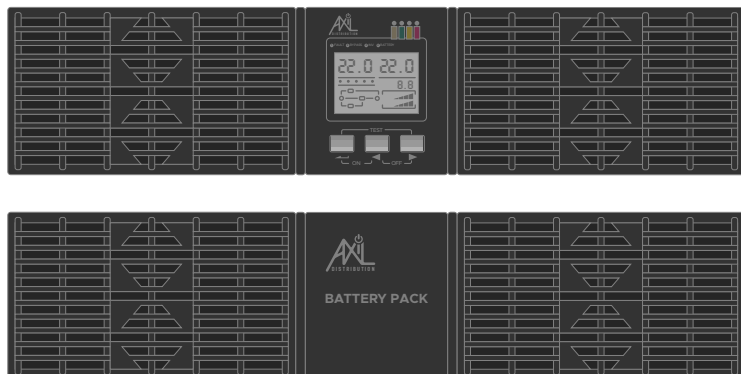
Applications

- ✓ **IT and Network Equipment**
Small and Medium-sized Data Centres.
Computer Server Rooms.
- ✓ **Automatic Control Systems**
Telecommunications, Education & Healthcare.
Safety, Security and Emergency Systems.
- ✓ **Office and Business Equipment**
Computers and Printers.
Scanners and MPOS (Mobile Point of Sale).

MODEL		RTS-6KL	RTS-10KL
Rated Capacity	0.9	6kVA / 5.4kW	10kVA / 9kW
	1.0	6kVA / 6kW	10kVA / 10kW
INPUT			
Input Formats	L + N + PE		
Rated Input Voltage	208 / 220 / 230 / 240 VAC		
Voltage Range	110 ~ 300 VAC (110 ~ 176 VAC, 264 ~ 300 VAC power limited)		
Frequency Range	50 / 60 Hz ±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 / 240 VAC		
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	Battery Mode	
	30 min @ 102% ~ 110% Load	10 min @ 102% ~ 110% Load	
	10 min @ 110% ~ 130% Load	1 min @ 110% ~ 130% Load	
	30s @ 130% ~ 150% Load	10s @ 130% ~ 150% Load	
	500ms @ > 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% (20 Pcs batteries)		
CHARGER			
Battery Quantity	Adjustable from 16 / 18 / 20 Pcs, Default 16 Pcs (Refer 4.4 for details)		
Battery Type	Lead acid battery		
Current Change	Adjustable from 1 ~ 12A, 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 etc.		
PHYSICAL			
Dimension, D x W x H (mm)	Rack Mount UPS Case 438 x 88 x 470		Battery Pack Case 438 x 88 x 690
Net Weight (Kgs)	9.5kg (PF=1.0) Excluding battery pack		10.25kg (PF=1.0) Excluding battery pack
Gross Weight (Kgs)	11.45kg (PF=1.0) Excluding battery pack		12.2kg (PF=1.0) Excluding battery pack
COMMUNICATION INTERFACE			
Interface	1 x USB, 1 x RS232, 1 x EPO		
STANDARDS			
Standards & Certification	EN/IEC 61000, EN/IEC 62040, GB/T4934, YD/T 1095,TLC etc.		

Performance and Functions

- ✓ **Flexibility**
Different configurations allow great flexibility for multi-purpose applications.
- ✓ **ECO Mode**
Green Power design for energy saving and power efficiency up to 98.5%.
- ✓ **Output**
Smart adjustable setting, with reliable voltage compensation for output to transformer.
- ✓ **Higher Power Factor**
Input power factor ≥ 0.99 , and output power factor up to 1.0 with super load efficiency.
- ✓ **Larger Charging Current**
All models can support 1A ~ 12A charging current as well as battery combinations with different capacitances.
- ✓ **Wider Frequency Adjustment**
Frequency can be set to 50Hz / 60Hz ± 10 Hz, with wider frequency adjustment to match the input characteristics of the generator.
- ✓ **Higher Design Standards**
All models are designed to comply with EN/IEC 61000, EN/IEC 62040, GB/T7260, GB/T4943, YD/T1095, TLC standards, greatly reducing the interference to the power grid and protects equipment as well.
- ✓ **Higher Efficiency**
High efficiency up to 95.5% means lower power loss and higher cost savings.



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

Full Machine Efficiency

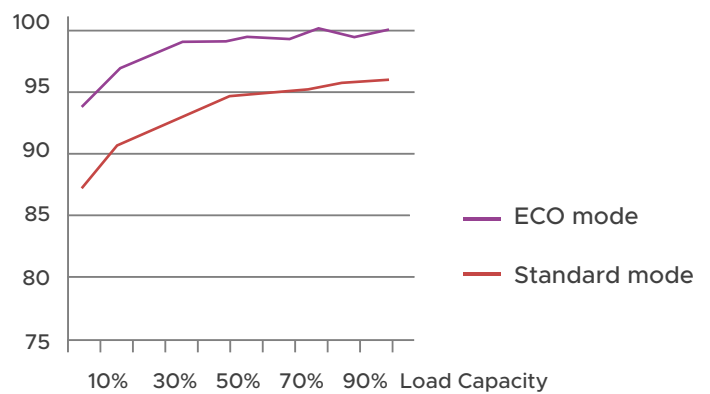


Diagram: 1 - 10K efficiency under mains supply.

Bypass DB PDU (6-10 kVA) Power Distribution Unit

