

PT SERIES ONLINE HIGH FREQUENCY UPS

PT Series Online High Frequency UPS

The 1-10KVA PT 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 PT 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.

PT1-10KVA Field of Application

•IT and Network equipment • Embedded and Automatic Control System

Small and Medium-sized data centers
Computer Server room

Production line control in factory

control system Electrical and railway signaling systems Security system











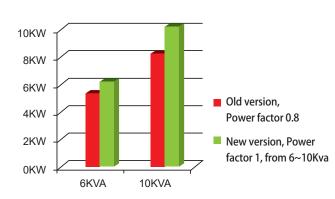
Telecommunication base station Automatic

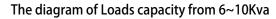
• Office and Business Equipment Office computer and Printer Scanner and MPOS

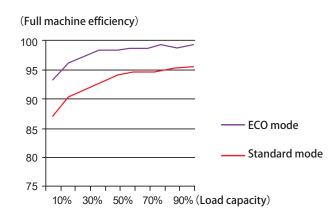
Product Function and Features

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







The diagram of 1-10K efficiency under mains supply



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

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.

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 $50hz/60hz\pm10Hz$, 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.

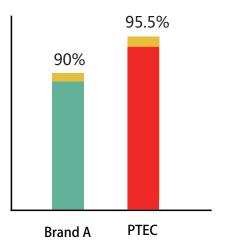
UPS Performance and Features

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.











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 \approx 1445Kwh

Saving fee per year for 6KVA (0.955-0.9)*6000W*24 hours*365 day ≈2900Kwh

SPECIFICATION 1-10KVA

Model	PT-1K PT-	IKL P	T-2K	PT-2KL	PT-3K	PT-3KL	PT-6K	PT-6KL	PT-10K	PT-10KL
Rated Capacity	1KVA /1000V	v	2 KVA /2	2000W	3 KVA /	3000W	6 KVA /	/6000W	10 KVA /	/10000W
INPUT					1				1	
nput Formats	L+N+PE									
Rated Input Voltage										
Voltage Range	110~300VAC (110~176VAC,280~300VAC power limited)									
Frequency Range										
nput Power Factor					≥	0.99				
nput Harmonic Distortion										
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	$\leq 1\%$ THD(linear load), $\leq 3\%$ THD(non-linear load) PF=0.8 $\leq 2\%$ THD(linear load), $\leq 5\%$ 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: Battery Mode: 30min@102%~110% Load 1min@102%~110% Load 10min@110%~130% Load 10s@110%~130% Load 30s@130%~150% Load 3s@130%~150% Load 200ms@>150% Load 200ms@>150% Load						AC Mode: Battery Mode: 30min@102%~110% Load 10min@110%~130% Load 30s@130%~150% Load 500ms@>150% Load 500ms@>150% Load			
Machine Efficie	ency						1			
AC Mode	Full load efficiency 94.5%@	220VAC Full lo	ad efficiency	95.5%@220VAC	Full load efficiency	95.5%@220VAC	Maximum e	fficiency 95.	5%,Full load e	fficiency 95%
Battery Mode	ull load efficiency 89.5%@36VDC Full load efficiency 91.5%@72VDC Full load efficienc									
Battery Mode	Full load efficiency 89.5%@	24VDC Full lo	ad efficiency	91.5%@ 48VDC	Full load efficiency	91.5%@ 72VDC				
BATTERY	,	I			,		1			
Battery Quantity	7Ah x 2 36	V 7Ah x	4/7Ahx6	72V	7Ah x 6/7Ah x 8	96V	7Ah x20	16~20PCS	7Ah x20	16~20PCS
Backup Time	I	I		Depend on	user′s req	1	nd configura	tion	1	1
Charge Current	PT1K-3K : 1.0A(default) ,1-2A(adjustable) External battery back; PT1KL-3KL: 5.0A(default) ,1-12A(adjustable) PT6K-10K : 5.0A(default) ,1-12A(adjustable) External battery back; PT6KL-10KL : 5.0A(default) ,1-12A(adjustable)									
WORKING ENV	RONMENT									
Ambient Temperature					0	~40°C				
Ambient Humidity										
Storage Temperature	-15~60°C(Battery:0~40°C)									
Altitude	<1000m,Derating at above 1000m,maximum 4000m,Refer to IEC62040									
DISPLAY										
LCD			We	orking mod	de/load/batt	ery power/i	input/outpu	t ect.		
STANDARD & C	ERTIFICATION									
Standard & Certi	fication:		EN/IE	C 61000,EN	N/IEC 62040,	GB/T4943,\	/D/T 1095,TL	.C etc.		
PHYSICAL										
case size (L*W*H)	285*144*225		395*144		410*190*325			460*200*360	460*200*720	460*200*360
Weight(KG)	17.5 (2pcs) 10 (2	pcs) 32 (4 24 (7	8V, 2pcs)/ 2V, 1pc)	17 (48V, 2pcs)	24.2(72V)/ 28.2 (96V) , 1pc	17 (2pcs)	61 (16pcs battery) / 69.5 (20pcs battery)	14	61.5 (16pcs battery) / 70 (20pcs battery)	14.8
Carton size(L*W*H)	485*380*350				610*330*480		605*300*989		605*300*989	585*300*520
COMUNICATIO		1		. ,	1	!	1		1	