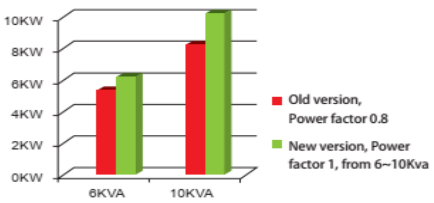
LPT Series Online High Frequency UPS

The 1-10KVA LPT 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 makes our LPT 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 makes 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.



The diagram of Loads capacity from 6~10Kva

Field of Application

IT and Network equipment

Small and Medium-sized data centers
Embedded and Automatic Control System
Telecommunication base station Automatic control system

Electrical and railway signaling systems

Security system
Television broadcast system
Computer Server room
Production line control in factory

Office and Business Equipment

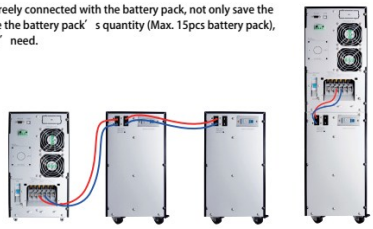
Product Function and Features

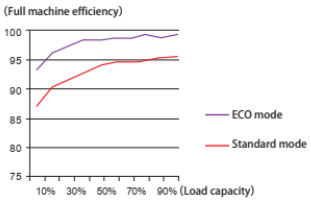
Different power configuration flexibility to achieve a multi – purpose machine, power customized available;
Selectable digital charger from 1A ~ 5 A, match for different appliance;
Wide input voltage range: 208/220/230/240V for option;
High efficiency up to 95.5%, lower power loss and save cost;
Output 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

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.





The diagram of 1-10K efficiency under mains supply

Technical Specifications							
Model		LPT-1KS	LPT-1KL	LPT-2KS	LPT-2KL	LPT-3KS	LPT-3KL
Capacity (VA/Watts)		1000VA / 1000W or 900 W		2000VA / 2000W		3000VA / 3000W	
Input							
Nominal Voltage		208/220/230/240 Vac					
Input Voltage Range		110 - 300 Vac (176~280 Vac @100%load)					
Frequency Range		40 - 70 Hz (50/60 Hz auto sensing)					
Power Factor		≥0.99					
Output							
Output Voltage		208/220/230/240 Vac					
Power Factor		1					
Voltage Regulator		±1					
Output Frequency	Line Mode	46 - 54 Hz or 56 - 64 Hz					
	Bat. Mode	50/60 ± 1%					
Crest Factor		3:1					
Harmonic Distortion (THDv)		≤3% Linear Load ≤5% Non-Linear Load					
Transfer time	AC Mode to Bat. Mode	0ms					
	Inverter to Bypass	4ms (Typical)					
Output Waveform		Pure Sine wave					
Efficiency							
AC Mode		88%		90%		91%	
Battery Mode		85%		87%		88%	
Battery							
Number of Batteries		2	2	4	6	6	8
Capacity (Standard Unit)		9Ah/12V					
Typical Recharging Time		3 hours (to 90% of full capacity)					
Charging Voltage		27.4Vdc±1%		54.8Vdc±1%		82.2Vdc±1%	
Charging Current (Max)		1A	6A/12A	1A	6A/12A	1A	6A/12A
Indicator							
LED Display		Line mode, Bat. mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault					
LCD Display		Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature and battery backup time					
Alarm							
Battery Mode		Beeping every 4 seconds					
Battery Low		Beeping every second					
Overload		Beeping twice every second					
Fault		Continuously beeping					
Physical							
Dimensions W x D x H (mm)		144x293x209	144x399x209	191x460x337			
Net Weight (kg)		4.1	9.3	10	19.5	10	24.5
Environment							
Operating temperature		0℃ - 40℃					
Storage Temperature		-25℃ - 55℃					
Humidity		20 - 95% RH @ 0-40℃ (non-condensing)					
Altitude		<1500m, derating required when > 1500m					
Noise level		<50dB at 1 meter					
Standards							
Safety		IEC/EN62040-1.IEC/EN60950-1					
EMC		IEC/EN62040-2, IEC6100Q-4-2, IEC61000-4-3, IEC6100Q-4-4, IEC61000-4-5,1EC61000-4-6,1EC61000-4-8					
*Specifications are subject to change without prior notice.							

Technical Specifications					
Model		**LPT-6KS**	**LPT-6KL**	**LPT-10KS**	**LPT-10KL**
Capacity (VA/Watts)		6000VA / 6000W		10000VA / 10000W	
Input					
Nominal Voltage		208/220/230/240 Vac			
Input Voltage Range		110 - 286 Vac			
Frequency Range		40 - 70 Hz (50/60 Hz auto sensing)			
Power Factor		≥0.99			
Output					
Output Voltage		208/220/230/240 Vac			
Power Factor		1			
Voltage Regulator		±1			
Output Frequency	Line Mode	±10% of the rated frequency			
	Bat. Mode	50/60 ± 0.1%			
Crest Factor		3:1			
Harmonic Distortion (THDv)		≤2% Linear Load ≤5% Non-Linear Load			
Transfer time	AC Mode to Bat. Mode	0ms			
	Inverter to Bypass	5ms (Typical)			
Output Waveform		Pure Sinewave			
Efficiency		93.50%			
Battery					
Battery Voltage		192/216/240Vdc (Adjustable, 192Vdc/16 VRLA batteries default)		192/216/240Vdc (Adjustable, 240Vdc/ 16 VRLA batteries default)	
Capacity (Standard Unit)		1 to 5 A (selectable)			
Typical Recharging Time		6-8 hours (to 90% of full capacity)			
Charging Current (Max)					
Indicator					
LED Display		Line mode, Bat. mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault			
LCD Display		Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature and battery backup time			
Alarm					
Battery Mode		Beeping every 4 seconds			
Battery Low		Beeping every second			
Overload		Beeping twice every second			
Fault		Continuously beeping			
Physical					
Dimensions W x D x H (mm)		S: 191 x 460 x720, H: 191 x 460 x 337(with wheels)			
Net Weight (kg)		69.5	12	71	13.5
Environment					
Operating temperature		0℃ - 40℃			
Storage Temperature		-25℃ - 55℃			
Humidity		20 - 95% RH @ 0-40℃ (non-condensing)			
Altitude		<1500m, derating required when > 1500m			
Noise level		<50dB at 1 meter			
Standards					
Safety		IEC/EN62040-1.IEC/EN60950-1			
EMC		IEC/EN62040-2, IEC6100Q-4-2, IEC61000-4-3, IEC6100Q-4-4, IEC61000-4-5,1EC61000-4-6,1EC61000-4-8			
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