Line-interactive (PWM output)

▼ Main Features

- CPU controlled
- Auto re-starts when AC recovers
- Silence setup
- Automatic charging (offline charging)
- Battery low voltage protection
- Overload & short circuit protection
- Wide input voltage range

▼ Technical Parameter

MODEL	V–525	V–525A	V–625	V–1000
Capacity	500VA/300W	500VA/300W	600VA/360W	1000VA/500W
INPUT				
Input voltage	110/120Vac or 220/230/240Vac			
Input voltage range	90–132Vac / 175–265Vac	85–150Vac / 145–290Vac		
Frequency range	45–65Hz			
OUTPUT				
Output voltage	110/120Vac or 220/230/240Vac			
Output voltage range	90–132Vac / 175–265Vac	102–132Vac / 200–255Vac		
Output frequency	60 ± 0.5Hz or 50 ± 0.5Hz (Batt. mode)			
Output wave form	PWM (Batt.mode)			
Transfer time	Typical 2–6ms, 10ms max			
BATTERY				
QTY. & capacity of battery	12V/4.5AH × 1pc	12V/4.5AH × 1pc	12V/7AH × 1pc	12V/9AH × 1pc
Charging period	4–6 hours recover to 90% capacity			
PROTECTION				
Full protection	Low voltage & overload & short circuit protection			
PHYSICAL				
Unit dimension(mm)	255*98*140		300*95*140	
Net weight(kg)	3.5	3.6	4.3	4.8
ENVIRONMENT				
Environment of performance	Temperature 0℃–40℃, Humidity 20%–90%			
Noise level	⩽40dB(1m)			
MANAGEMENT				
LCD or LED, RJ45/11 & USB	Optional			

Product specifications are subject to change without notice.

Line-interactive (PWM output)

▼ Main Features

- CPU controlled
- Auto re-starts when AC recovers
- Silence setup
- Automatic charging (offline charging)
- Battery low voltage protection
- Overload & short circuit protection
- Wide input voltage range

▼ Technical Parameter

MODEL	V–1200	V–1500	V–2000	V–3000
Capacity	1200VA/720W	1500VA/900W	2000VA/1200W	3000VA/1800W
INPUT				
Input voltage	110/120Vac or 220/230/240Vac			
Input voltage range	85–150Vac / 145–290Vac		85–150Vac / 175–275Vac	
Frequency range	45–65Hz			
OUTPUT				
Output voltage	110/120Vac or 220/230/240Vac			
Output voltage range	102–132Vac / 200–255Vac		102–132Vac / 198–242Vac	
Output frequency	60 ± 0.5Hz or 50 ± 0.5Hz (Auto sensing)			
Output wave form	PWM (Batt. mode)			
Transfer time	Typical 2–6ms, 10ms max			
BATTERY				
QTY. & capacity of battery	12V/7AH × 2pcs	12V/9AH × 2pcs	12V/9AH × 2pcs	12V9AH × 4pcs
Charging period	4–6 hours recover to 90% capacity			
PROTECTION				
Full protection	Low voltage & overload & short circuit protection			
PHYSICAL				
Unit dimension (mm)	330 * 122 * 192		345 * 122 * 192	412 * 145 * 210
Net weight (kg)	9.5	11.5	14.7	20
ENVIRONMENT				
Environment of performance	Temperature 0℃–40℃, Humidity 20%–90%			
Noise level	⩽40dB(1m)			
MANAGEMENT				
LCD or LED, RJ45/11 & USB	Optional			

Product specifications are subject to change without notice.

SL Series

Line-interactive (Pure sine wave)

▼ Main Features

- Double CPU controlled
- Silence function
- Pure sine wave output
- Compatible with generator
- Automatically transferred to battery mode when input over voltage or under voltage
- Output overload and short circuit protection
- Can be connected to external battery for longer power supply
- Powerful charging current for high-capacity battery
- RJ11/RJ45, communication line protection function
- RS232/USB port(optional), intelligent monitoring function

▼ Technical Parameter

MODEL	SL-600	SL-1K	SL-1.5K	SL-2K	SL-3K	SL-5K	SL-600L	SL-1KL	SL-1.5KL	SL-2KL	SL-3KL	SL-5KL
Capacity	600VA	1000VA	1500VA	2000VA	3000VA	5000VA	600VA	1000VA	1500VA	2000VA	3000VA	5000VA
	360W	800W	1200W	1600W	2400W	4000W	360W	800W	1200W	1600W	2400W	4000W
DISPLAY												
Indicator panel	LCD display / LED display (Optional)											
AC MODE												
Input voltage	145-275Vac											
Input frequency	45-65Hz											
Output voltage	200-240Vac											
INVERTER MODE												
Output voltage	220V ± 5%											
Output frequency	50 ± 0.5Hz											
Power factor	0.6	0.8										
Output wave form	Pure Sine Wave											
Transfer time	Typical 2-6ms, 10ms max											
Overload capability	110% shut down within 60secs. 120% shut down within 5secs.											
Overcurrent protection	System shuts down automatically within 20ms											
BATTERY												
Battery type	Sealed maintenance-free lead-acid batteries											
DC voltage	DC12V	DC 24V		DC 48V			DC 24V			DC 48V		
QTY. & capacity of battery	12V/7AHX1	12V/7AHX2	12V/9AHX2	12V/7AHX4	12V/9AHX4	12V/17AHX4	External battery					
Charging current	----------						5A / 10A(Adjustable)					
Charging period	6-8 hours recover to 90% capacity						Depends on the batteries connected					
Battery protection point	Adjustable											
PHYSICAL												
Dimension(mm)	305*85*141	384 * 122 * 192		375 * 192 * 330		585*192*330	305*85*141	345 * 122 * 192		455 * 195 * 330		
Net weight(kg)	4.8	9	12.1	22.5	24.5	30	3.8	6	8.1	17.3	20.6	26
ENVIRONMENT												
Environment	Temperature 0℃-40℃, Humidity 20%-90%											
Noise level	⩽40dB(1m)											
Altitude	⩽1000 m (Altitude exceeds 1000m, full power cannot reach)											
MANAGEMENT												
USB & RS232	Optional											

Product specifications are subject to change without notice. Note: L for long back up time models

RTL Series

Line-interactive (Pure sine wave)

▼ Main Features

- Pure sine wave output
- Double CPU controlled
- G-Sensor autorotation LCD display
- Extensible battery pack
- Powerful charging function(Self settable)

▼ Technical Parameter

MODEL	RTL-1K/RTL-1KL	RTL-1.5K/RTL-1.5KL	RTL-2K/RTL-2KL	RTL-3K/RTL-3KL	RTL-5K/RTL-5KL
Capacity	1000VA/800W	1500VA/1200W	2000VA/1600W	3000VA/2400W	5000VA/4000W
DISPLAY					
Indicator panel	LCD display				
AC MODE					
Input voltage	145-275Vac				
Input frequency	45-65Hz				
Output voltage	200-240Vac				
INVERTER MODE					
Output voltage	220V ± 5%				
Output frequency	50 ± 1% Hz / 60 ± 1%Hz(Auto sensing)				
Power factor	0.8				
Output wave form	Pure Sine Wave				
Transfer time	Typical 2-6ms, 10ms max				
Overload capability	110% shut down within 60secs. 120% shut down within 5secs.				
Overcurrent protection	System shuts down automatically within 20ms				
BATTERY					
Battery type	Sealed maintenance-free lead-acid batteries				
DC voltage	DC 24V		DC 48V		DC 48V
QTY. & capacity of battery	12V/7AHx2	12V/9AHx2	12V/7AHx4	12V/9AHx4	12V/9AHx4
External DC voltage	----	24VDC	----	24VDC	----	48VDC	----	48VDC	----	48VDC
Charging current	Long back up time models: 5A or 10A (Adjustable)				
Charging period	Standard type models:6-8 hours recover to 90% capacity;Long backup time models:Depends on the batteries connected.				
PHYSICAL					
Dimension(mm)	441 * 445 * 88				441 * 445 * 132
Net weight(kg)	16.2	13.5	19.2	16	26.6	18.6	28.5	20.5	39	30.8
ENVIRONMENT					
Environment	Temperature 0℃-40℃, Humidity 20%-90%				
Noise level	⩽40dB(1m)				
Altitude	⩽1000 m (Altitude exceeds 1000m, full power cannot reach)				
MANAGEMENT					
USB & RS232	Optional				
BATTERY PACK	12V/7AH × 8		12V/9AH × 8		12V/9AH × 12
Dimension(mm)	441 * 445 * 88				441 * 445 * 132
Net weight(kg)	24.5		27.4		42.6

Product specifications are subject to change without notice. Note: L for long back up time models

ONLINE HIGH FREQUENCY UPS

PT Series

PT Series

▼ Product Introduction

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, 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 di□erent power problems, such as transient voltage sag, damped oscillation, high voltage pulse, surge voltage, harmonic distortion, noise wave interference, frequency □uctuation and others. Providing more reliable protection for the application and UPS itself.

▼ PT1-10KVA 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

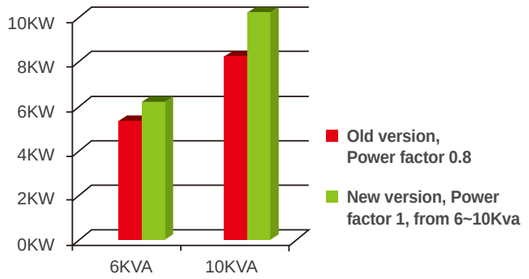
Scanner and MPOS

PT Series

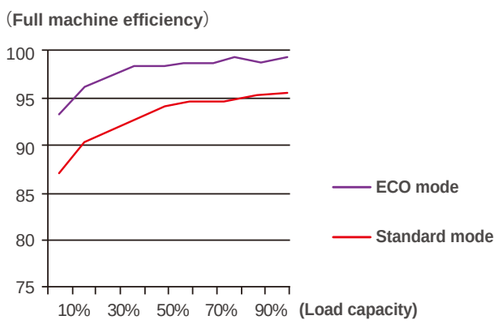
▼ Product Function and Features

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 Loads capacity from 6~10Kva



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±10Hz, with wider frequency adjustment range to match the input characteristics of the generator.

Higher design standards

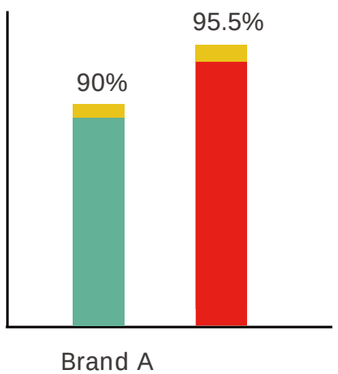
All models are designed to comply with standards EN/IEC 61000, EN/IEC 62040, GB/T7260, GB/T4943, YD/T1095, TLC, which greatly reduces the interference to the power grid and the equipment used, and protects the user's equipment well.

PT Series

▼ 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 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

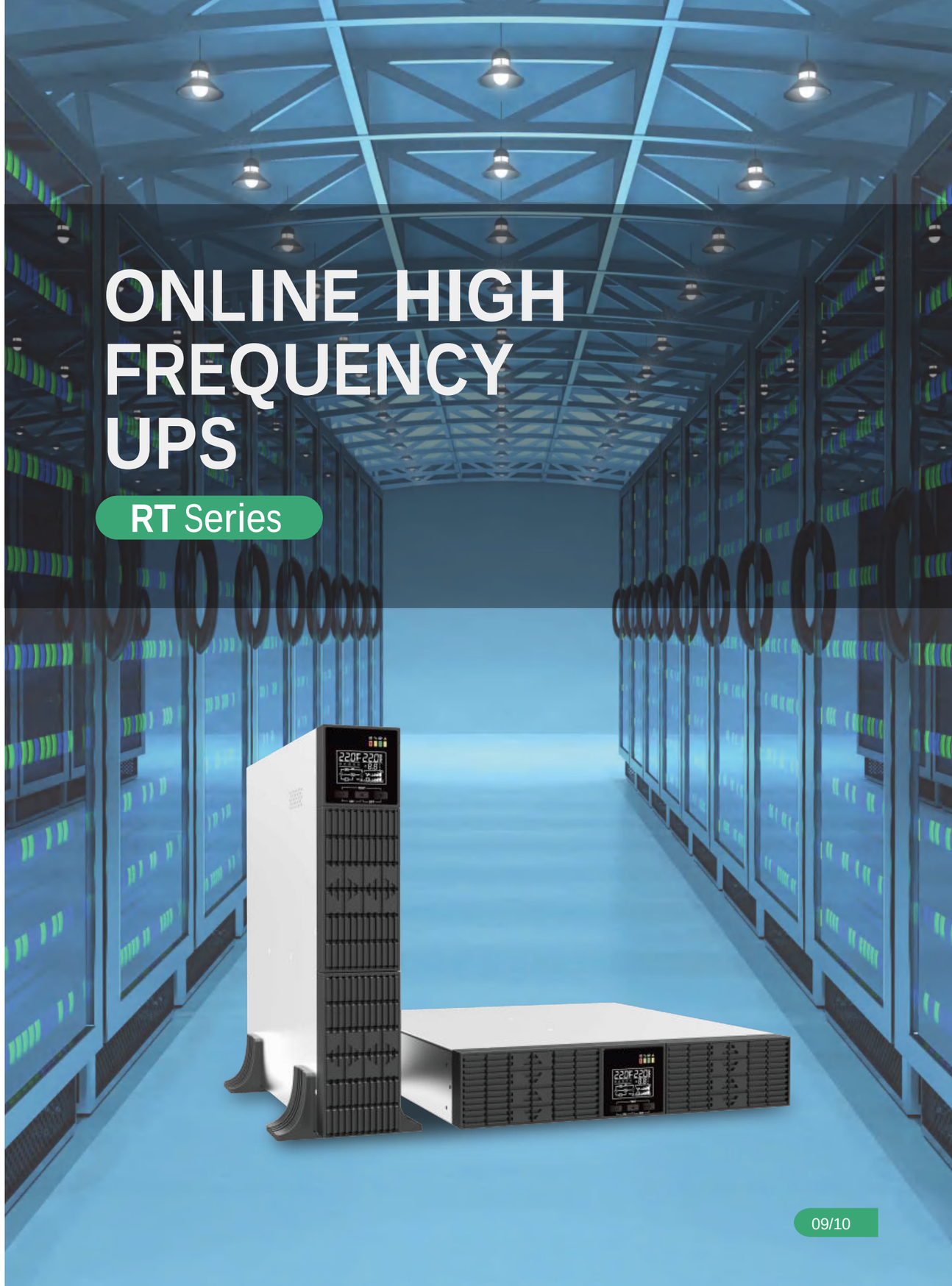
Saving fee per year for 6KVA
(0.955-0.9)*6000W*24 hours*365 day
≈2900Kwh

PT Series

▼ SPECIFICATION 1-10KVA

MODEL	PT-1K	PT-1KL	PT-2K	PT-2KL	PT-3K	PT-3KL	PT-6K	PT-6KL	PT-10K	PT-10KL
Rated Capacity	1KVA /1000W		2 KVA /2000W		3 KVA /3000W		6 KVA /6000W		10 KVA /10000W	
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	≦3% THD(linear load), ≦5% THD(non-linear load) PF=0.8						≦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	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						≦2% THD(linear load), ≦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: 30min@102%~110% Load 10min@110%~130% Load 30s@130%~150% Load 200ms@>150% Load		Battery Mode: 1min@102%~110% Load 10s@110%~130% Load 3s@130%~150% Load 200ms@>150% Load				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	Full load efficiency 94.5%@220VAC		Full load efficiency 95.5%@220VAC		Full load efficiency 95.5%@220VAC		Maximum efficiency 95.5%,Full load efficiency 95%			
Battery Mode	Full load efficiency 89.5%@36VDC		Full load efficiency 91.5%@72VDC		Full load efficiency 91.5%@ 96VDC		Maximum efficiency 95.3%,Full load efficiency 94.8%(20pcs battery)			
Battery Mode	Full load efficiency 89.5%@24VDC		Full load efficiency 91.5%@ 48VDC		Full load efficiency 91.5%@ 72VDC		———			
BATTERY										
Battery Quantity	7Ah x 2	36V	7Ah x 4/7Ah x 6	72V	7Ahx6/7Ahx8	96V	7Ahx16/7Ah x20	16~20PCS	7Ahx16/7Ah x20	16~20PCS
Backup Time	Depend on user's requirement and configuration									
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 ENVIRONMENT										
Ambient Temperature	0~40℃									
Ambient Humidity	20%~95%（No Condensation）									
Storage Temperature	-15~60℃(Battery:0~40℃)									
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)(mm)	276*145*225		392*145*225/395*190*325		395*190*225	392*145*225	460*190*615	395*190*325	460*190*615	395*190*325
Weight(KG)	18.8 (2pcs)	10.9 (2pcs)	30.6(48V, 2pcs)/ 22(72V,1pc)	15.4 (48V, 2pcs)	22.4(72V)/ 26.5(96V),1pc	16.5 (2pcs)	55.8(16pcs battery)/ 63.8(20pcs battery)	10.1	57(16pcs battery)/ 65(20pcs battery)	12.05
Carton size(L*W*H)(mm)	485*380*355		494*485*355(48V)/510*295*455(72V)		510*295*455	494*485*355	625*305*830	510*295*455	625*305*830	510*295*455
COMUNICATION INTERFACE										
INTERFACE	1*USB,1*RS232,1*EPO									

Product specifications are subject to change without notice. Note: L for long back up time models



▼ 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, 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.

▼ RT1-10KVA 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.

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

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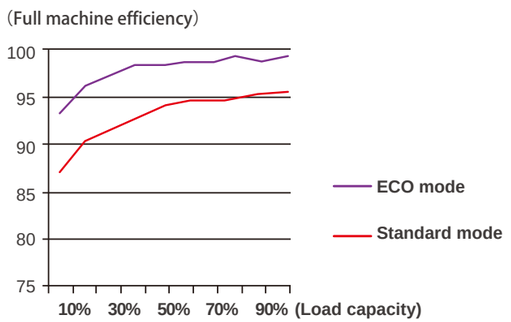


The diagram of 1-10K efficiency under mains supply

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.

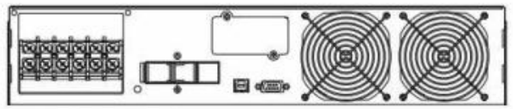
Higher design standards

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.

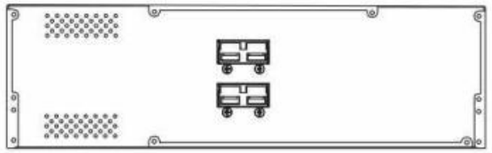
▼ UPS Performance and Features

Can connected with multiple battery pack in parallel.

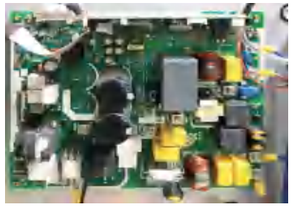
Long back up UPS can be freely connected with the battery pack, not only save the space, we also can increase the battery pack′ s quantity (Max. 15pcs battery pack), to meet the different users′ need.

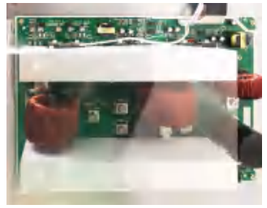


Rack mout UPS



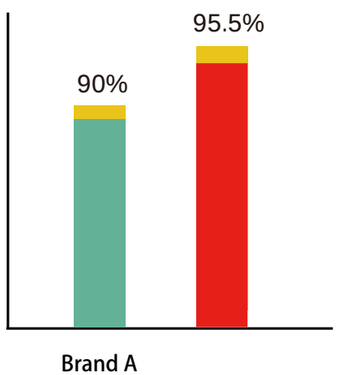
Battery Pack





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 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

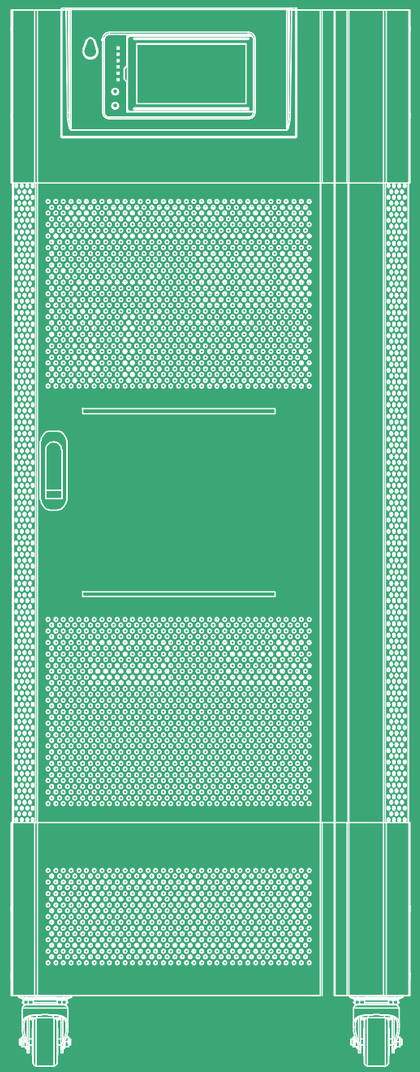
RT Series

▼ 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	≦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 30s@130%~150% Load 200ms@>150% Load		Battery Mode: 1min@102%~110% Load 10s@110%~130% Load 3s@130%~150% Load 200ms@>150% Load			
MACHINE EFFICIENCY						
AC Mode	Full load efficiency 94.5%@220VAC		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	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					
Charge Current	RT1K-3K ：1.0A(default) ,1-2A(adjustable) External battery back; RT1KL-3KL：5.0A(default) ,1-12A(adjustable) .					
WORKING ENVIRONMENT						
Ambient Temperature	0~40℃					
Ambient Humidity	20%~95%（No Condensation）					
Storage Temperature	-15~60℃(Battery:0~40℃)					
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)	438*88*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*507*178		533*617*178	533*507*178	533*617*178	533*507*178
COMUNICATION INTERFACE						
INTERFACE	1*USB,1*RS232,1*EPO					

▼ SPECIFICATION 6-10KVA

Model		RT-6K	RT-6KL	RT-10K	RT-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		208/220/230/240VAC			
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 effciency 95%			
Battery Mode		Maximum efficiency 95.3%, Full load effciency 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℃			
Ambient Humidity		20%~95%（No Condensation）			
Storage Temperature		-15~60℃(Battery:0~40℃)			
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			



Application

Its advanced battery charging system enables the UPS to supply a long backup time while the charging time is rather short, and its temperature compensation system can help to prolong the service life of the battery. Also, its circuit is simple, which reduces the number of components and makes the machine more compact and more reliable.

Its true double-conversion online technology provides pure and safe power supply to all appliances, communication equipment and important loads connected to the Internet, and the DSP technology responds quickly to different power supply problems, making sure its load will work uninterruptedly.

It is compatible to all kinds of loads and widely used in the fields of energy sources, transportation, office, medical equipment, engine-room, data center, toll station and so on.

Energysources Enterprise Data center Electronics Scientific research Engine-room

ONLINE LOW FREQUENCY UPS

GP33-10-300KVA Series

Function and Feature

- Range from 10kva to 300kva
- True double-conversion online technology
- DSP 100% micro controlled
- N+1 parallel redundant connection
- High efficiency＞92%
- Dual power supply (selectable)
- Accept 100% unbalanced load
- Cold start
- Intelligent battery control
- Compatible with generators
- Powerful communication system (RS232. SNMP. GPRS)

30–40Kva Appearance

Advanced Communication Function

With the use of communication interface and monitoring software, you can monitor this UPS on your computer, which simplifies the management of power supply. You can also choose to buy a SNMP card, which is compatible to all kinds of operating system, and supports TCP/IP, SNMP, HTTP Protocol,so as to monitor the UPS through internet. Moreover, it will be easier to achieve central management even users are scattered in different places and it can also diagnose network and maintain the system remotely, realizing global management in a very real sense.

1. Software monitoring through RS232

There is a RS232 interface on the back panel of the UPS, which can be used to connected the UPS to a computer by a communication line so as to monitor the UPS. The distance between the UPS and its monitoring equipment is better to be less than 10 meters and better to use the USB cable which is called trendnet tu-s9. The hyper terminal in the computer will monitor the UPS and this software is already installed in “Window's” and “Window xp” system or you can download a newer edition from Internet.

The window of running this program is shown as the graph on the right :

2. Monitoring through network adapter

With the use of network adapter, information can be exchanged through local area network or Internet, so a network adapter can monitor a UPS at a time or many UPS simultaneously, depending on user’s wishes.

2.1 Thanks to http server, UPS will become a small server so any computer can do the monitoring job by entering the IP address of the UPS.

2.2 The other way is to use SNMP. Our company will provide a software that can drive SNMP (NetAgent Utlity) to monitor the UPS in real time.

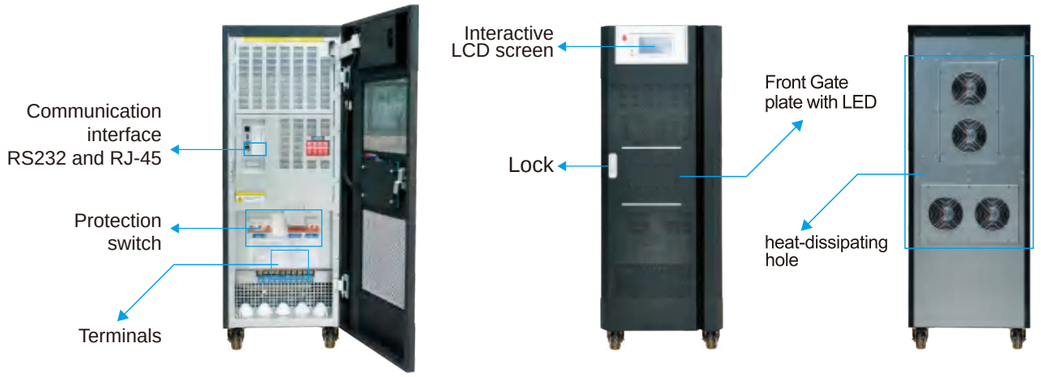
3. Monitoring through GPRS

Specifications of the UPS can be monitored or set by exchanging information through MODEM GPRS. As long as users register information of the UPS on the Internet, he will be able to check information of the UPS on the website and he will also be able to schedule for the UPS as well. As a result, no matter what happen to the UPS, an email or a message will be sent to the user’s mobile phone. This way can be very helpful in the area, which has no LAN, Internet or is far away.

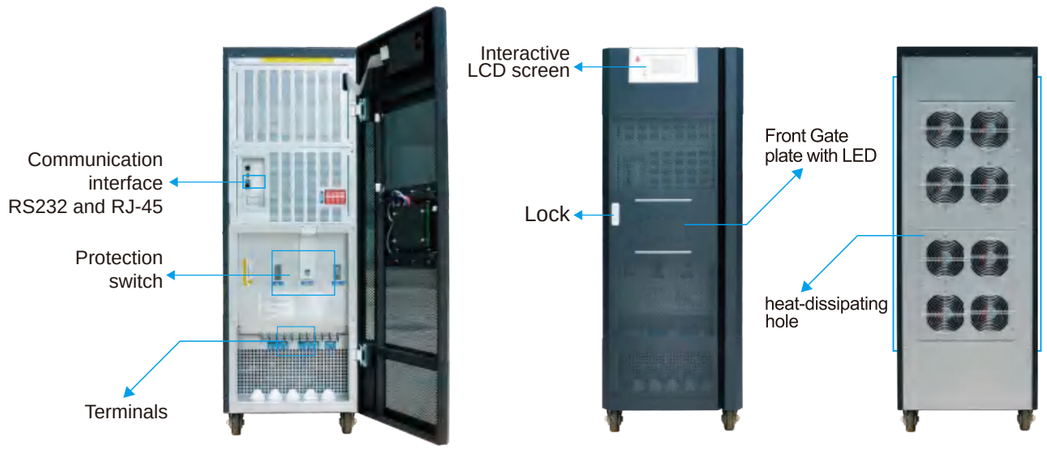
◇ All the network information, operating process and software CD will be sent to the user along with the product.

GP33-10-300Kva Series

30–40Kva Appearance



100–120Kva Appearance



MODEL	GP33-10~20Kva	GP33-30~40Kva	GP33-60~80Kva	GP33-100~120Kva	GP33-160~200Kva	GP33-250~300Kva
Capacity	10/15/20Kva	30/40Kva	60/80Kva	100/120Kva	160/200Kva	250/300Kva
UPS(WxDxH)mm	400x750x970	410x810x1070	500x980x1320	505x1060x1420	848x1117x1876	1600x1180x1960
Pack(WxDxH)mm	478x836x1141	515x825x1310	603x1170x1500	603x1190x1586	948x1325x1985	1760x1301x2168
UPS weight (kg)	146/165/183	238/264	353/430	540/566	960/1080	1540/1745
Temperature	0℃~40℃					
Relative humidity	0~95%, non condensing					
Noise	＜60db at 1.5m from surface of unit					
Altitude	1000m(height rises every 100m, power decreases 1%, maximum height is 4000m)					
Efficiency	Power saving mode＞98%, Inverter＞92%, AC–AC＞91%					

Product specifications are subject to change without notice.

GP33-10-300Kva Series

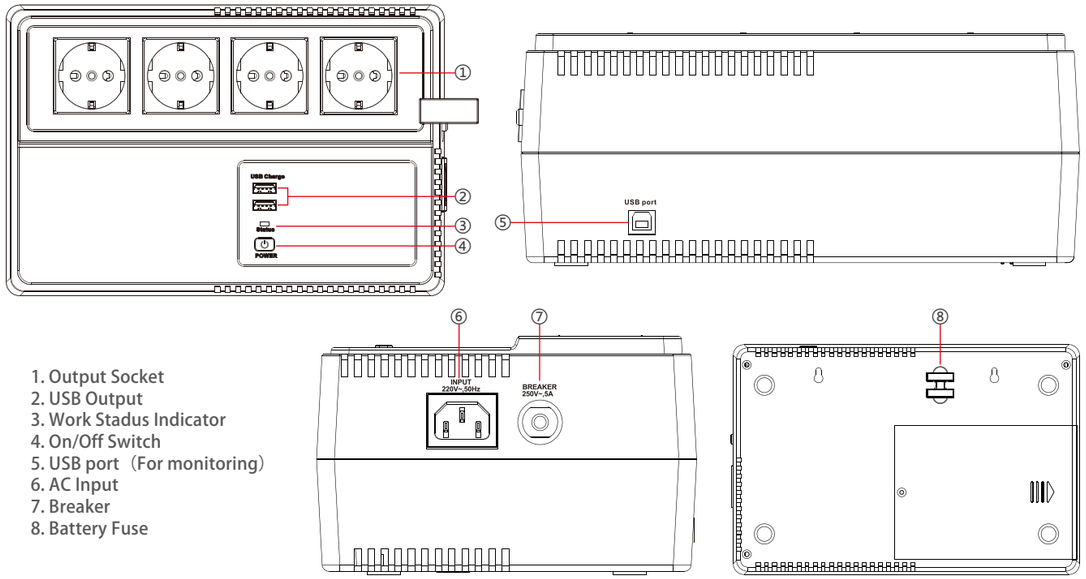
▼ Technical Parameter

MODEL	GP33-10~20Kva	GP33-30~40Kva	GP33-60~80Kva	GP33-100~120Kva	GP33-160~200Kva	GP33-250~300Kva
Transference	0ms cutless					
Technology	True double-conversion online technology, conversion performed by IGBT					
INPUT						
Voltage	3x220/380 vac ± 25%					
Frequency	50Hz ± 15%					
Conductors	Three phases+N+E					
OUTPUT						
Voltage (selectable)	3x220/380 vac ± 1% (More voltage can be selected)					
Frequency	50Hz ± 0.1%					
Waveform	Pure sine wave generated by high frequency PWM inverter					
Harmonic Distortion	＜2% Linear load/＜5% Nonlinear load					
Crest Factor	3:1					
Power factor	0.8 or 0.9					
Overload recuperation	Automatic transfer to normal					
Voltage regulation	Load balance:±1%					
Overload capacity	125% for 12 minutes / 150% for one minute					
Conductors	Three phases+N+E					
Battery						
Type	Maintenance – free sealed lead-acid battery, 12V*32 batteries					
Full load autonomy	3 to 15 minutes. extended-range capability					
Typical recharge time	4 ~ 8 hours, 90%					
Battery behavior	Autotest. Transfer Point Adjustable battery and alarm setting					
Battery protection	Fuse protection, battery switch, temperature compensation, regular inspection, software protection, overvoltage tripping.					
Rectification	Software protection, input switch, over current protection, temperature protection					
Protection						
Hardware protections	Breaker for input, output, battery and bypass. Fast acting fuses in DC, fans,redundant power supplies, temperature sensors, on-o switch and audible alarms.					
Bypass	Static solid state, automatic and manual operation without interruption for maintenance. External Bypass (optional)					
Emergency switch	Remote and/or local EPO					
Supervisory control and communication						
Frontal panel	Interactive LCD display(Touchscreen)					
Alarms	Audible and visual alarm for abnormal conditions					
Communications	RS232, SNMP-RJ45, GPRS (RS232&RJ45 standard, the other is optional)					

Product specifications are subject to change without notice.

BS Series

▼ Description Of Appearance



1. Output Socket
2. USB Output
3. Work Stadus Indicator
4. On/Off Switch
5. USB port（For monitoring）
6. AC Input
7. Breaker
8. Battery Fuse

▼ Technical Parameter

Model	BS-380
Rated power	600VA/390W
BATTERY	
Battery capacity	12V /5Ah lead acid battery
Recharge time	8 hours
INPUT	
AC input voltage	220VAC
AC input voltage range	175-260VAC
AC input frequency	50/ 60Hz
OUTPUT	
AC Output voltage range	175-260VAC
AC Output voltage(battery mode)	225±5VAC
AC Output frequency	50/60Hz
Output waveform	PWM(batt.mode)
USB output	5V/2A* 2
Output sockets	4 x European socket or bypass for option
ENVIRONMENT	
Environment of performance	Temperature 0℃-40℃ , Humidity20%-90%
Noise level	⩽40dB(1m)
MACHINE SPECIFICATIONS	
Dimension (L*W*H) (mm)	257*170*108
Weight (Kg)	3

Product specifications are subject to change without notice.

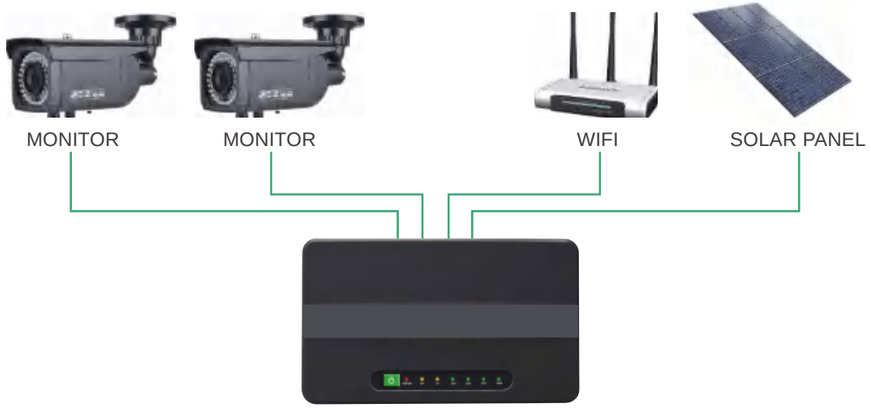
DC UPS Series

ECO Plus 212 ECO Plus 415/430 ECO Plus 860/1660

DC UPS

▼ Main Features

- High capacity lithium batteries, provides long backup to the loads.
- High compatibility, suitable for most digital products in the market.
- POE can transmit power and simplify wiring.
- Intelligent circuit design with over-charging, over-discharging andshort circuit protections.
- Built-in adapter allows wide AC voltage range (100~240Vac).
- Solar panel is acceptable for the input interface.



MODEL	ECO Plus							
	212	415	415P	430P	430M	430S	860	1660
INPUT								
Input voltage	100–240Vac							
OUTPUT								
DC output voltage(optional)	USB 1.5A 9/12V 1A	5V+USB 2A 9V/12V 1A 12V 1A	5V+USB 2A 9V/12V 1A 15V/24V (POE) 0.5A	5V+USB 2A 9V/12V 2A 15V/24V (POE) 1A	5V+USB 2A 9V/12V 2A 12VX4 2A	5V+USB 2A 9V/12VX4 2A Solar input 1A	5V+USBX2 2A 9/12V 2A 15V/24V(POE) 1A 12VX4 5A Solar input 2A	
Voltage select	Choosing through the slide switch							
Output power (Max)	12W	15W		30W			60W	
Transfer time	0 ms							
BATTERY								
Battery type	Lithium battery							
QTY. & capacity of battery	6700mAh	8800mAh					2200mAhX8	2200mAhX16
CHARGE								
Charging period	1–2 hours	2–3 hours					4–5 hours	
PHYSICAL								
Unit dimension (mm)	141.5*84.5*35	180*106*29					258*152*46	
Net weight (Kg)	0.3	0.4					0.94	1.28
ENVIRONMENT								
Environment of performance	Temperature：0℃℃–40℃, Humidity：20%–90%							
Noise level	Less than 40dB							

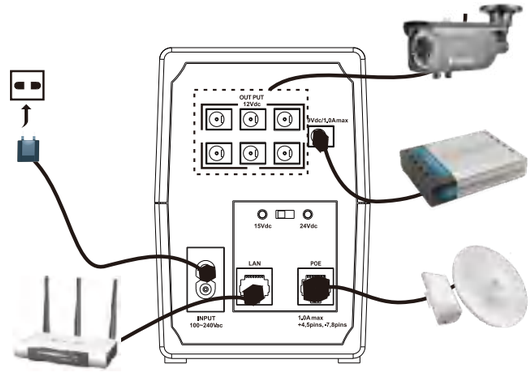
Product specifications are subject to change without notice.

DC UPS Series

DC UPS

▼ Main Features

- High capacity lead-acid batteries,provides long backup to the loads.
- High compatiblity ,suitable for most digital products in the market.
- POE can transmit power and simplify wiring.
- In elligent circuit design with over-charging, over-discharging and short circuit protections.
- Built-in a dapter allows wide AC voltage range (85-265Vac).



▼ Technical Parameter

MODEL	DCT-60	DCT-120
INPUT		
Voltage range	100–240 Vac	
Input frequency	35–70 Hz	
OUTPUT		
Output power (Max.)	60W(5A)	120W(10A)
Output voltage & current (Max.)	9Vdc(1A)+12VdcX6(5A)+15/24Vdc POE(1A)	9Vdc(1A)+12VdcX6(10A)+15/24Vdc POE(1A)
BATTERY		
Battery type	12V/7Ah	12V/9Ah
PHYSICAL		
Dimension (mm)	300*95*140	
Net weight (Kg)	2.8	3.0

Product specifications are subject to change without notice.