

TRUE ONLINE UPS

PT Online UPS

1 kVA ~ 3 kVA
PF 0.9

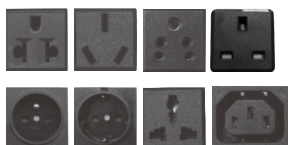


Features

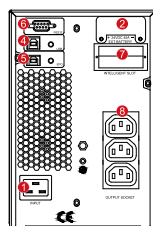
- High frequency on-line double conversion technology
- DSP (Digital signal processing) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 50 / 60 Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 4h (standard model UPS)
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion mode
- Multi-platform communications: RS232 (standard), USB / RS485 / SNMP / dry contacts (optional)
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, and 12 A charger (2/3 kVA only)

Rear Panel

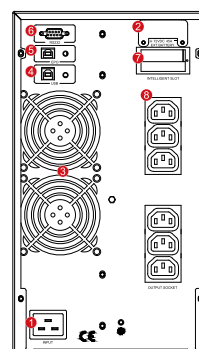
1. AC input socket
2. Battery connector (Optional)
3. Fan
4. USB (Optional)
5. EPO (Optional)
6. RS232
7. Intelligent slot (Optional)
8. Output sockets



Optional outlets



1kVAS



2kVAS / 3kVAS

Specifications

MODEL	PT1000		PT2000		PT3000	
Capacity	1 kVA / 900 W		2 kVA / 1800 W		3 kVA / 2700 W	
INPUT						
Rated voltage	208 / 220 / 230 / 240 Vac					
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 280 Vac (no derating); 280 ~ 300 Vac (derating 50%)					
Frequency	40 ~ 70 Hz (auto-sensing)					
Bypass voltage range	- 25% ~ +15% (settable)					
Total harmonic distortion (THDi)	≤ 6%					
OUTPUT						
Voltage	208 / 220 / 230 / 240 Vac (settable via LCD)					
Voltage regulation	±1%					
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz±0.1 Hz (battery mode)					
Waveform	Sinusoidal					
Power factor	0.9					
Total harmonic distortion (THDv)	≤ 2% (linear load), ≤ 5% (non-linear load)					
Crest factor	3:1					
Overload	105% ~ 125% for 1 min, 125% ~ 150% for 30 s, > 150% for 300 ms					
BATTERIES						
DC voltage	24 V		72 V		72 V	
Inbuilt battery	2 x UPS12460F2		6 x GP1272F2-28W		6 x UPS12460F2	
Charging current (max.)	1 A		1 A		1 A	
Recharge time	Standard model: 90% capacity restored in 3 hours; Long time model: depend on the capacity of battery					
SYSTEM						
Efficiency	≥ 90% (Mains mode)		≥ 91% (Mains mode)		≥ 92% (Mains mode)	
	≥ 85% (Battery mode)		≥ 86% (Battery mode)		≥ 87% (Battery mode)	
	≥ 95% (ECO mode)		≥ 96% (ECO mode)		≥ 97% (ECO mode)	
Transfer time	Mains mode to battery mode: 0 ms Inverter mode to bypass mode: 4 ms (typical)					
Protections	Short-circuit, overload, overtemperature, battery discharge protection and fan testing protection					
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP (optional)					
Display	LCD + LED					
Standards	EN 62040-1, EN 62040-2, EN 61000-3-2, EN 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2, IEC 62040-2, IEC 62040-1, IEC 62040-3					
OTHERS						
Operating temperature	0℃ ~ 40℃					
Storage temperature	-25℃ ~ 55℃ (without batteries)					
Relative humidity	0 ~ 95% (non-condensing)					
Altitude	≤ 1000 m, derating 1% for each additional 100 m					
IP rating	IP 20					
Noise level at 1m	≤ 50 dB					
Dimensions (W×D×H) (mm)	144 x 312 x 216		191 x 419 x 335		191 x 419 x 335	
Packaged dimensions (W×D×H) (mm)	230 x 402 x 315		277 x 500 x 435		277 x 500 x 435	
Net weight (kg)	8.8		23.1		24.3	
Gross weight (kg)	9.8		24.7		25.9	

- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.