



UPS TOWER 1KVA - 3KVA

Features

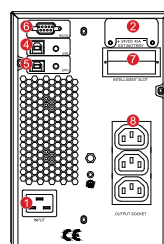
- High frequency on-line double conversion technology.
- DSP (Digital signal processing) control technology.
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110 ~ 300 Vac) and frequency range (40 ~ 70 Hz).
- Auto sensing frequency.
- 50 / 60 Hz frequency conversion.
- Cold start
- Rear ventilation desing and variable speed fan.
- Effective software and hardware protection.
- Quick and stable charging, 90% capacity restored in 3h (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.
- Multi-platform communications: RS232,USB, (standard), RS485, SNMP, dry contacts (optional)
- Optional RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function.

Rear Panel

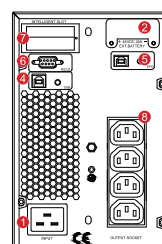
1. AC input socket
2. Battery connector (optional)
3. Fan
4. USB
5. EPO (optional)
6. RS232
7. Intelligent slot (optional)
8. Output sockets



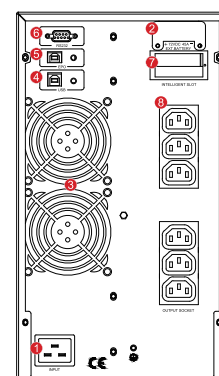
Outlets



KUE1 WB



KUE2 WB



KUE3 WB

TECHNICAL SPECIFICATIONS



MODEL	KUE T01 WB	KUE T02 WB	KUE T03 WB
Capacity	1kVA / 0.9kW	2kVA / 1.8kW	3kVA / 2.7kW
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 ~ 300Vac (derating 50%)		
Frequency range	40 ~ 70 Hz (auto-sensing)		
Power factor	≥ 0.99		
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 ~ 55Hz or 55 ~ 65Hz (synchronized); 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 30seg, > 150% for 300 ms		
BATTERIES			
DC voltage	24V (Wb)	48V (Wb)	72V (Wb)
Inbuilt battery	2x9Ah	4x9Ah	6x9 Ah
Charging current (max.)	Standard model Wb :1A;Long time model:6A		
Recharge time	Standard model Wb: 90% capacity restored in 3 hours		
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, USB (Standard) / RS485, SNMP, EPO, battery temperature compensation (optional)		
Display	LCD + LED		
Standards	EN 62040-1, EN62040-2, EN61000-3-2, EN 61000-3-3, IEC 61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8, IEC61000-4-11, IEC 61000-2-2, IEC 62040-2, IEC 62040-1, IEC62040-3		
OTHERS			
Operating temperature	0°C ~ 40°C		
Storage temperature	-2S°C ~ 55°C (without battery)		
Relative humidity	0 ~ 95% (non-condensing)		
Altitude	≤ 1000 m, derating 1% for each additional 100m		
IP rating	IP 20		
Noise level at 1 m	≤ 50 dB		
Dimensions (W x D x H)(mm)	144x312x216	144x417x216	191x419x335
Packaged dimensions (W x D x H) (mm)	230x402x315	230x506x315	277x500x435
Net weight (kg)	11	16.4	24.3
Gross weight (kg)	11.3	17.8	25.9

- Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208 Vac.
- Wb means standard model.
- All specifications are subject to change without notice.
- Custom - made apifications are acceptable.