Online Double Conversion

1KVA ~ 3 KVA UPS

Lithium battery Type



Features

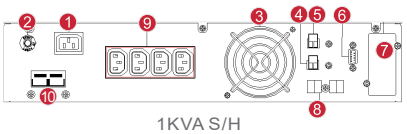
- High frequency on-line double conversion technology
- DSP (Digital signal processors) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 50 / 60 Hz frequency conversion
- Cold start
- Effective software and hardware protection
- Linear derating in low voltage input reducing battery discharging times
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Use lithium battery
  - High reliability, high power and energy density
  - Providing greater autonomy (15 min at full load for standard model UPS)
  - Long cycle life (≥ 2000 cycle times)
  - Greater performance at high/low temperature
- Advanced battery management (ABM)
- Rotatable display panel
- Multi-platform communications: RS232 (standard), USB/RS485/SNMP/dry contacts (optional)

Available Options

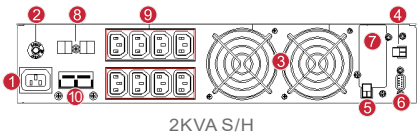
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, MBS (External maintenance bypass switch)

Rear Panel

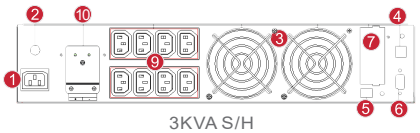
1. AC input socket
2. Overcurrent protector
3. Fan
4. USB port
5. EPO (Emergency Power Off) port
6. RS232 port
7. Intelligent slot
8. Surge protection for network/fax/modem
9. Output sockets
10. Battery connector



1KVA S/H



2KVA S/H



3KVA S/H

Specification

MODEL	A1000S-LiB	1KHRT Li	A2000S-LiB	2KHRT Li	A3000S-LiB	3KHRT Li
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)					
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 ~ 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						
Battery type	Lithium iron phosphate Battery					
DC voltage	25.6V	48V	51.2V	48V	76.8V	48V
Inbuilt battery	8×3.2 V / 12 Ah	/	16×3.2 V / 12 Ah	/	24×3.2 V / 12 Ah	/
Charging current (max.)	1 A	6 A	1 A	6 A	1 A	6 A
Recharger time	Standard model: 90% capacity restored in 11 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, ISO 9001:2015					
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)	440 × 468 × 88	440 × 468 × 88	440 × 583 × 88	440 × 468 × 88	440 × 683 × 88	440 × 468 × 88
Packaged dimensions (W×D×H) (mm)	545 × 598 × 198	545 × 598 × 198	545 × 707 × 201	545 × 598 × 198	545 × 807 × 201	545 × 598 × 198
Net weight(kg)	10.6	7.6	19	9.7	25	10.6
Gross weight(kg)	13.6	10.6	23	14	29	14.6

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