



Features

- Advanced DSP (Digital signal processors) technology
- Variable speed fan
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check
- Advanced digital parallel technology
- Wide input voltage range, 50 / 60 Hz frequency auto sensing
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Dual-input design, supporting independent bypass
- Output power factor improved from 0.9 to 1, load capacity increased by 13%
- Charging voltage and current configured by demands
- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output

- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Compact internal layout, miniaturized the complete unit for small footprint
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Equipped with self-aging function

Available Options

- RS232 and smart card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

Rear Panel

1. RS232
2. EPO
3. Parallel port (optional)
4. USB (optional)
5. Temperature detection (optional)
6. SNMP (optional)
7. Reserved: for customer function such as manual bypass, battery breaker, socket ect.
8. Fans
9. Bypass breaker
10. Input breaker
11. GND
12. Terminals and terminal cover



6k2i / 10k2i



Specifications

MODEL	HD-6K2i	HD-10K2i
Capacity	6 kVA / 6000 W	10 kVA / 10000 W
INPUT		
Input wiring	Three-phase five-wire (3Φ + N + PE)	
Rated voltage	380 V / 400 V / 415 Vac	
Voltage range	190 ~ 305 Vac (linear derating between 50% and 100% load); 305 ~ 499 Vac (no derating)	
Rated frequency	50 / 60 Hz (auto-sensing)	
Frequency range	40 ~ 70 Hz	
Power factor	≥ 0.99	
Bypass voltage range	- 40% ~ +15% (settable)	
Total harmonic distortion (THDI)	≤ 5%	
OUTPUT		
Output wiring	Single-phase three-wire (1Φ + N + PE)	
Rated voltage	208 V (PF=0.9) / 220 V / 230 V / 240 Vac	
Voltage regulation	± 1%	
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1% Hz in battery mode	
Waveform	Sinusoidal	
Power factor	1	
Total harmonic distortion (THDV)	≤ 1% (linear load); ≤ 3% (non-linear load)	
Crest factor	3:1	
Overload capability	102% ~ 110% for 10 min, 110% ~ 125% for 1 min, 125% ~ 150% for 30 s	
BATTERIES		
DC voltage	192 Vdc	
Number of battery	16 pcs	
Inbuilt battery	12 / 7 Ah × 16	12 / 9 Ah × 16
Charging current	1 A	
Recharge time	90% capacity restored in 8 hours;	
SYSTEM		
Efficiency	≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode	
Switching time	0 ms	
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure	
Max. number of parallel connections	4	
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)	
Display	LCD + LED	
OTHERS		
Operating temperature	0°C ~ 40°C	
Storage temperature	-25°C ~ 55°C (without battery)	
Humidity	0 ~ 95% (non-condensing)	
Altitude	≤ 1000 m, derating 1% for each additional 100 m	
IP rating	IP 20	
Noise level at 1 m	≤ 58 dB	
Dimensions (W × D × H) (mm)	191 × 495 × 711	
Packaged dimensions (W × D × H) (mm)	685 × 310 × 941	
Net weight (kg)	58.5	64
Gross weight (kg)	66.5	72

* All specifications are subject to change without notice.

