

HYUNDAI ONLINE TOWER UPS

10KVA – 20KVA 3:1/1:1

PF 0.9/1.0 (OPTIONAL)



Features

- High frequency true online double-conversion technology
- Advanced DSP and 3-level technology
- Output power factor upto 1.0 (Optional)
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- 3:1 to 1:1 model settable
- Wide input voltage range (190~499Vac) & frequency range (40-70 Hz)
- 50/60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input /60 Hz output or 60 Hz input/50 Hz output
- Dual-input design, supporting independent bypass
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 10 A)
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- Ability to switch on the UPS with batteries
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485/Modbus, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check

Available Options

- RS232 and smart slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485/Modbus card, dry contacts

Rear panel

1. RS232
2. EPO
3. Parallel port (optional)
4. USB (Optional)
5. Temperature detection (optional)
6. Intelligent slot
7. Reserved: for manual bypass or battery breaker or outlets ect.
8. Fans
9. Bypass breaker
10. Input breaker
11. GND
12. Terminals and Cover



10K2

15-20K2

10K2i

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Specifications

MODEL	HD-10K2i / HD-10K2	HD-15K2	HD-20K2
Capacity	10kVA/9kW 10kVA/10kW	15kVA/13.5kW 15kVA/15kW	20kVA/18kW 20kVA/20kW
INPUT			
Input wiring	Three-phase five-wire (3Φ + N + PE)		
Rated voltage	380/400/415Vac		
Voltage range	190-305Vac (linear derating between 50% and 100% load); 305-499Vac (no derating)		
Rated Frequency	50/60Hz (auto-sensing)		
Frequency range	40~70Hz		
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 (PF 0.9)/220/230/240 Vac		
Voltage regulation	±1%		
Frequency	Synchronized to bypass in mains mode; 50/60Hz (±0.1% Hz in battery mode)		
Waveform	Pure sinewave		
Power factor	0.9. 1.0 (Optional)		
Total harmonic distortion (THDv)	≤1% (linear load), ≤3% (non-linear load)		
Transfer time	0ms		
Crest factor	3:1		
Overload	105% ~ 110% for 10 mins, 110% ~ 125% for 1 min, 126% ~ 150% for 30s		
Protections	Short circuit, Overload, overtemperature, undervoltage, overvoltage, battery low voltage, fan failure		
BATTERIES			
DC voltage	192 Vdc (192-240 Vdc settable)		
Number of battery	16pcs (16-20 settable)		
Inbuit battery	10K2i: 16*12V9Ah	/	/
Battery type	VRLA Sealed lead-acid maintenance-free battery		
Charging current	10K2i: 1A; K2 series: 5A (default); 1-5A settable, 10A (optional)		
Recharge time	10K2i: 90% capacity restored in 8 hours. K2 series: Depend on the capacity of battery		
SYSTEM			
Efficiency	≥94% @100% load, Max 95% @ 60% load (Online mode); ≥98% (ECO mode)		
Max. number of parallel connections	4 (optional)		
Communications	RS232, intelligent slot (standard). USB/SNMP card/Dry contact/RS485-Modbus card (optional)		
Display	LCD + LED		
	Display Load, Battery, capacity, input-output, operating modes, fault....		
OTHERS			
Operation temperature	0-40°C		
Storage temperature	-25-55°C (without battery)		
Relative humidity	0%-95% (non-condensing)		
Altitude	≤ 1000m, derating 1% for each additional 100m		
IP rating	IP 20		
Noise level at 1m	≤58dB		
Dimensions (W*D*H) mm	K2i: 191*495*711 K2: 191*495*350	191*495*515	
Net weight (kg)	K2i: 64 / K2: 18.5	26.5	

• All specifications are subject to change without notice

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