

ECO G4 *Plus*

10 - 20KVA (3 Ph - 1 Ph UPS)

Online HF Transformerless UPS



Features

- + Advanced DSP and 3-level technology
- + 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 ~ 499 Vac) and 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, SNMP and dry contacts communication interfaces
- + Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check
- + RS232 and smart card slot included
- + Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

CONTACT US

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Technical Specifications

Capacity	10 kVA / 10000 W	15 kVA / 15000 W	20 kVA / 20000 W
INPUT			
Input wiring	Three-phase five-wire (3Φ + N + PE)		
Rated voltage	380 / 400 / 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 (PF=0.9) / 220 / 230 / 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	105% ~ 110% for 10 min, 110% ~ 125% for 1 min, 126% ~ 150% for 30 s		
BATTERIES			
DC voltage	192 Vdc (192 ~ 240 Vdc settable)		
Number of battery	16 pcs (16 ~ 20 settable)		
Charging current	Long time model: 5 A (default), 1 ~ 5 A settable; 10 A		
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery		
SYSTEM			
Efficiency	≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode		
Transfer time	0 ms		
Protections	Short-circuit, output 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)		
Relative 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 (S) 191 × 495 × 350 (H)	191 × 495 × 515 (H)	
Packaged dimensions (W × D × H) (mm)	310 × 685 × 941 (S) 318 × 617 × 475 (H)	285 × 593 × 618 (H)	
Net weight (kg)	64 (S), 18.5 (H)	26.5 (H)	
Gross weight (kg)	72 (S), 20 (H)	28 (H)	

* All specifications subject to change without notice

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