

True online UPS

Double Conversion High Frequency

EA 9010 G4

10KVA 9000W



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
- Wide input voltage range (110 ~ 288 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. 12 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
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- 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

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

Indicators	Description
1. INV	Inverter indicator: green—inverter is normal, green flicker—rectifier or inverter is starting or tracking with bypass(ECO), dark—rectifier and inverter is not working
2. BAT	Battery indicator: yellow—battery discharged, yellow flicker—No battery or battery alarm, dark—battery is connected Bypass indicator: yellow—bypass is normal, yellow flicker—bypass is abnormal and alarm ,dark—UPS is in normal mode and bypass is normal
3. BYP	
4. FAULT	FAULT indicator: red—UPS is abnormal, red flicker—UPS alarm ,dark—UPS is normal



มท.1291 เต็ม - 2553
มท.1291 เต็ม2 - 2553
มท.1291 เต็ม3 - 2555
บริษัท ซีบีซี อีเอ็มเคอ์นซ์ จำกัด

Specifications

MODEL	EA-9010G4
Capacity	10KVA 9000W
INPUT	
Input wiring	Single-phase three-wire (1Φ + N + PE)
Rated voltage	208 / 220 / 230 / 240 Vac
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 288 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	0.9
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 4% (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)
Inbuilt battery (standard model)	12 V / 9Ah×16
Charging current	1 A
Recharge time	Standard model: 90% capacity restored in 8 hours;
SYSTEM	
Efficiency	≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode
Transfer 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)
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
Packaged dimensions (W × D × H) (mm)	310 × 685 × 941
Net weight (kg)	62
Gross weight (kg)	70

- S means standard model; H means long time model.
- All specifications are subject to change without notice.

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To be Thai International Power
and Green Energy Company