

## เครื่องสำรองไฟฟ้า (UPS)

### True online UPS Double Conversion High Frequency

## EA900G4 H 6 kVA to 10 kVA Long backup time models



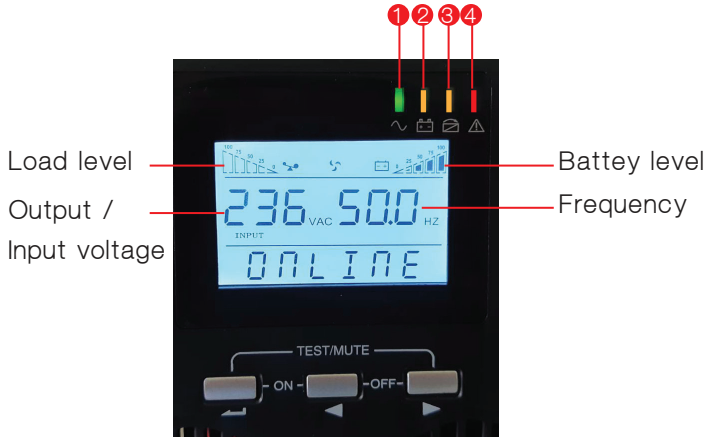
### Product features

- High frequency on-line double conversion technology
  - Advanced DSP and 3-level technology
  - Output power factor 0.9
  - 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
  - Digitally controlled charger
  - Charging voltage and current configured by demands
  - Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
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- 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
  - Certificates : TIS.1291 Type 1-2553, TIS1291 Type 2-2553, TIS.1291 Type 3-2555 , ISO9001-2015, ISO14001, RoHs, CE

### Available Options

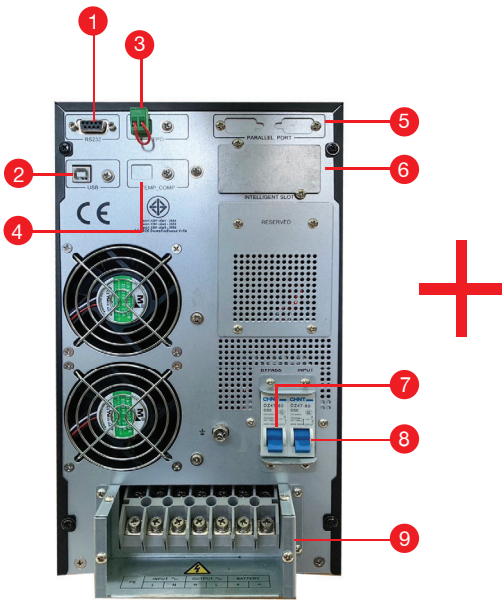
- RS232 and smart card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

# Display

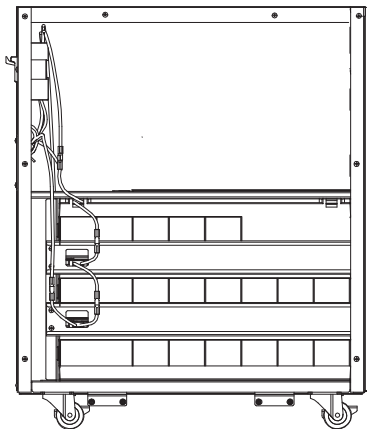


Indicators	Description
1. INV	Inverter indicator: green--inverter is normal, green flicker--rectifier or inverter is starting or tracking with bypass(ECO), dark--rectifier and inverter is not working
2. BAT	Battery indicator: yellow--battery discharged, yellow flicker--No battery or battery alarm, dark--battery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

# Available models



6 / 10kVA



Battery Cabinets

Long Backup Time Model UPS with the External Battery.

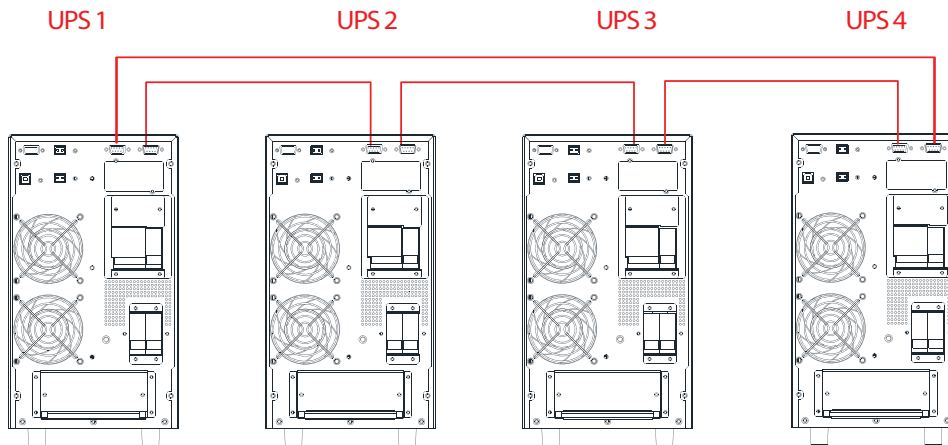
The nominal DC voltage of external battery pack is 192Vdc.

Each battery pack consists of 16 pieces of 12V maintenance free batteries in series. To achieve longer backup time, it is possible to connect multi-battery packs, but the principle of "same voltage, same type" should be strictly followed.

1. RS232 Communication Interface	4. Temperature detection [optional]	7. Bypass breaker
2. USB	5. Parallel port [optional]	8. Input breaker
3. Emergency Power Off (EPO)	6. Intelligent Slot (SNMP) Optional	9. Terminals and terminal cover

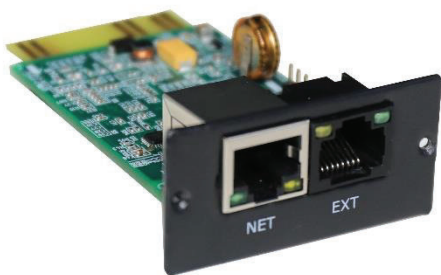
# Connect Parallel Cables (Optional)

Max. number of parallel connections **4** parallels



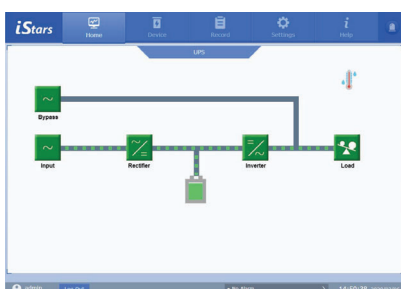
NOTICE : Must install paralle cards and set the parallel system of the UPS as "parallel work mode" by iServerTool software.

# Network interface card (Optional)



**SNMP card** enables real-time monitoring of your UPS system via a standard web browser.

SNMP card is new generation network monitoring product. Not only could monitor UPS stand-alone, SNMP card also could real-time network monitor and management of UPS. Integrated monitoring can be achieved by coordinating corresponding PC software. And it is quite convenient for User to take network management for UPS.



# Technical specifications

MODEL	EA906G4 H	EA9010G4 H
<b>Capacity</b>	<b>6kVA 5400W</b>	<b>10kVA 9000W</b>
<b>INPUT</b>		
Rated voltage	208 V / 220 V / 230 V / 240 Vac , Single-phase three-wire (1Φ + N + PE)	
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load);176 ~ 288 Vac (no derating)	
Frequency	50 / 60 Hz (auto-sensing)	
Power factor	≥0.99	
Total harmonic distortion (THDi)	≤ 5%	
Bypass voltage range	- 40% ~ +15% (settable)	
<b>OUTPUT</b>		
Voltage	208 V / 220 V / 230 V / 240 Vac (settable via LCD) , Single-phase three-wire (1Φ + N + PE)	
Voltage regulation	± 1%	
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1% Hz in battery mode	
Waveform	Sinusoidal	
Crest factor	3:1	
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 4% (non-linear load)	
Transfer time	Mains mode to battery mode: 0 ms Inverter mode to bypass mode: 4 ms (typical)	
Power factor	0.9	
Overload capability	1105% ~ 110% for 10 min, 110% ~ 125% for 1 min, 126% ~ 150% for 30 s	
<b>BATTERIES</b>		
	Sealed lead acid maintenance free battery type	
DC voltage	192 Vdc	
External battery	16 × 12V	
Back up time	Depend on the load	
Recharge time	Long time model: depend on the capacity of battery	
Charging current	Long time model: 5 A (default), 1 ~ 5 A settable	
<b>SYSTEM</b>		
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 ,USB (standard), RS485 / dry contacts / SNMP /battery temperature compensation (optional)	
Display	LCD + LED	
<b>OTHERS</b>		
Operating temperature	0 ~ 40 °C	
Storage temperature	-25 C ~ 55 C (without battery)	
IP rating	IP 20	
Altitude	≤ 1000 m, derating 1% for each additional 100 m	
Relative Humidity	0 ~ 95% (non-condensing)	
Noise level (1m)	≤55 dB	≤58 dB
Dimensions (WxDxH) (mm)	191 × 465 × 350	191 × 465 × 350
Net weight (kg)	14.5	16.5

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All specifications subject to change without notice.  
Custom - made specifications are acceptable.