

EA900Pro

10KVA ~ 30KVA (3:3)
PF 0.9



Features

- High frequency and true online double-conversion
 - DSP digital control technology
 - Input power factor correction (PFC)
 - Wide input voltage range (190V ~ 485V)
 - Output power factor 0.9
 - Excellent load-carrying capability, linear derating between 50% and 100% load at 190 ~ 277 Vac
 - Optimized battery configuration: 192V / 240V
 - Cold start
 - Auto sensing frequency
 - ECO mode operation for energy saving
 - 50 / 60Hz frequency conversion mode
 - Selectable output voltage via LCD
 - Selectable battery shutdown voltage (EOD) via LCD
 - Power-on self test
 - Advanced battery management (ABM)
 - Short circuit and overload protection
- Automatic charging in OFF mode
 - Auto control fan speed when loads varies
 - Dual input
 - Advanced quick charge technology, charging speed is increased double
 - Configurable transfer time from battery to mains power, reducing the impact on grid or generator
 - Automatic startup / shutdown function (optional), automatic transfer to bypass at light load, automatic restart at acting load; energy-saving and environment-friendly
 - Standard RS232 / USB communication port
 - Standard emergency power off (EPO)
 - Standard maintenance bypass
 - Optional extension battery bank
 - Optional RS485 / SNMP / AS400 communication port
 - Optional N+X redundancy parallel up to 6 units
 - Optional battery temperature compensation

Rear Panel

1. Mains Input
2. DC Input
3. Bypass Input
4. Output
5. Mains Input Breaker
6. Bypass Input Breaker
7. Maintenance Bypass
8. Fan
9. RS232
10. USB
11. EPO
12. Battery Temperature Compensation (Optional)
13. Intelligent Slot 1 (SNMP / AS400 / RS485 Optional)
14. Intelligent Slot 2 (SNMP / AS400 / RS485 Optional)
15. Parallel Card (optional)



Specifications

MODEL	EA9010P		EA9015P	EA9020P	EA9030P
Capacity	10 KVA / 9 KW		15 KVA / 13.5 KW	20 KVA / 18 KW	30 KVA / 27 KW
INPUT					
Rated voltage	360 V / 380 V / 400 V / 415 Vac				
Voltage range	277 ~ 485 Vac (no derating) 190 ~ 277 Vac (linear derating between 50% and 100% load)				
Rated frequency	50 / 60 Hz (auto-sense)				
Frequency range	40 ~ 70 Hz				
Power factor	≥ 0.99				
Total harmonic distortion (THDI)	≤ 5%				
Bypass voltage range	-40% ~ + 15% (settable)				
OUTPUT					
Voltage	360 V / 380 V / 400 V / 415 Vac (settable)				
Voltage regulation	± 1%				
Frequency	Synchronized with utility in mains mode; 50 / 60 ± 0.1 Hz in battery mode				
Waveform	Sinusoidal				
Crest factor	3:1				
Total harmonic distortion (THDV)	≤ 2% (linear load); ≤ 5% (non-linear load)				
Transfer time	Mains mode to battery mode: 0 ms; Inverter mode to bypass mode: 0 ms				
Inverter overload capability	102% ~ 125%: transfer to bypass in 10 mins;				
	125% ~ 150%: transfer to bypass in 1 min;				
	> 150%: transfer to bypass in 0.5 s				
Bypass overload capability	102% ~ 125%: shut down in 20 mins;				
	125% ~ 150%: shut down in 2 mins;				
	> 150%: shut down in 1 s				
BATTERIES					
DC voltage	Standard model: 240 Vdc; Long time model: 192 Vdc				
Inbuilt battery of standard model	20 × 7 Ah	40 × 7 Ah	40 × 9 Ah	60 × 9 Ah	
Typical recharge time	Standard model: 4 hours; Long time model: depend on the capacity of battery				
SYSTEM					
Efficiency	≥ 93%, ECO mode 98%				
Display	LCD + LED				
Alarm	Battery mode, low battery, fans fault etc.				
Max. parallel numbers	6				
EMI	IEC / EN62040-2				
EMS	IEC61000-4-2 (ESD)				
	IEC61000-4-3 (RS)				
	IEC61000-4-4 (EFT)				
	IEC61000-4-5 (surge)				
COMMUNICATIONS					
RS232 / RS485 / USB / dry contacts	Supports Windows® 98 / 2000 / 2003 / XP / Vista / 2008 / 7 / 8 / 10				
SNMP (optional)	Power management from SNMP manager and web browser				
OTHERS					
Humidity	20 ~ 90% RH @ 0 ~ 40°C (non-condensing)				
Noise level	≤ 60 dB (1m)	≤ 65 dB (1m)			
Dimensions (W × D × H) (mm)	350 × 655 × 732 (H)				
	350 × 785 × 868 (S)	350 × 785 × 1078 (S)			
Packaged dimensions (W × D × H) (mm)	472 × 780 × 920 (H)				
	472 × 910 × 1050 (S)	472 × 910 × 1260 (S)			
Net weight (kg)	55 (H), 115 (S)	60 (H), 155 (S)	61 (H), 175 (S)	65 (H), 235 (S)	
Gross weight (kg)	65 (H), 125 (S)	70 (H), 170 (S)	71 (H), 190 (S)	75 (H), 250 (S)	

- Derate capacity to 90% when the output voltage is adjusted to 208Vac.
 - S means standard model, H means long time model.
- All specifications subject to change without notice.
 - Custom-made specifications are acceptable.