

FEATURES

Operating Flexibility

- Operating modes can be programmed flexibly
- On-grid operating, easy feed-in to the grid, backflow prevention, energy self-generation and self-
- Off-grid operating, no worry about grid power failure
- Solar power, battery power and AC utility power source to provide loads with continuous power
- Even with grid or PV input only, inverter can still start working without battery
- Priority of PV, battery or grid power source can be programmed flexibly
- High efficiency of battery management system, EOD, floating voltage and charge current are settable.

High Efficiency And Safety

- Soft-switching technology, improving inverter efficiency
- DSP complete digital control technology
- Small size, light weight, easy installation
- Superior protection

Intelligent Monitoring

- LCD, LED display real-time operating information
- Monitoring software display real-time operating information
- Monitoring software make operating modes programmed and control
- Various communications selectable via USB, RS485, SNMP

SPECIFICATIONS

MODEL	EA3KHD
Rated power	3000 W
Operating mode	Flexible setup via upper computer software or LCD interface
PV INPUT	
Max. input power	4500 W
Rated input voltage	360 Vdc
Max. input voltage	500 Vdc
Start-up voltage	115 Vdc
Initial feeding voltage	150 Vdc
MPPT voltage range	250 Vdc ~ 450 Vdc
Max. input current	18 A
PV short circuit current	18 A
Number of MPPT	1
BATTERIES	
Battery type	Lithium battery
Rated voltage	51.2 Vdc
Voltage range	46.4 Vdc ~ 57.6 Vdc
Battery type	VRLA AGM maintenance–free battery
Rated voltage	48 Vdc
Voltage range	40 Vdc ~ 58 Vdc
Battery capacity	100 Ah ~ 120 Ah optimized
	1425 W
Rated charger power	25 A (5 A / 10 A / 15 A / 20 A / 25 A settable)
Max. charging current	,
Charging curve	3-Stage 94%
Max. charging efficiency	
Rated discharge power	3000 W 100 A
Max. discharge current	
Max. discharge efficiency	94%
AC GRID INPUT	400.17
AC start-up voltage	120 Vac
Grid voltage range	170 ~ 280 Vac
Rated grid frequency	50 Hz / 60 Hz
Allowed grid frequency	50 ± 5 Hz / 60 ± 5 Hz
AC input power	5100 VA / 5100 W
Max. input current	30 A
AC OUTPUT (connect with load)	
Rated output power	3000 VA / 3000 W
Rated output voltage	230 Vac (208 / 220 / 240 Vac settable)
Rated output current	13.0 A (14.4 A / 13.6 A / 12.5 A)
Output voltage range	184 Vac ~ 264.5 Vac
Rated output frequency	50 Hz / 60 Hz
Output frequency precision	± 1%
Power factor	0.9 leading ~ 0.9 lagging
Output voltage precision	± 1%
Transient recovery time	≤ 40 ms
Peak factor	3:1
Linear load waveform distortion	≤ 3%
Short circuit current	45 A (100 ms)
TRANSFER TIME	, , , , , , , , , , , , , , , , , , ,
Off-grid mode → On-grid mode	0 ms
On-grid mode → Off-grid mode	10 ms
EFFICIENCY	
MPPT efficiency	99%
Max. PV efficiency	96%
OTHERS	50 /u
	USB / RS485 / SNMP (optional)
Communications Protection rating	IP20
Protection rating Operating temperature	0° C ~ 40° C (> 40° C derating)
Operating temperature	· •
Max. relative humidity	0 ~ 90%
Max. altitude	<1000 m (> 1000 m derating)
Cooling	forced ventilation
Alarm	LED, buzzer
Display	LED, LCD
Noise	≤ 50 dB
Topology	Transformerless
Dimensions (W × D × H) (mm)	410 × 123 × 470
Packaged dimensions (W × D × H) (mm)	508 × 582 × 183
Net weight (kg)	14.42

All specifications subject to change without notice.

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