

ETA-1.2K | ETA-3.6K-PRO | ETA-6.5K-PRO

OFF-GRID HIGH-FREQUENCY SOLAR INVERTER

A compact all-in-one power system combining a pure sine wave inverter, a built-in MPPT solar charge controller and a smart AC charger. Designed to deliver clean, reliable power for homes, shops and small businesses — from solar, grid or battery.

KEY FEATURES

- ⚡ **Dual outputs** for smart load management
- ⚡ **Pure sine wave output** — runs with or without a battery
- ⚡ **Wide PV input up to 500 VDC** — powers loads directly from solar, even without a battery, when solar energy is sufficient
- ⚡ **Built-in MPPT** solar charge controller for maximum harvest
- ⚡ **Configurable priorities** for AC/solar input and output via the LCD panel
- ⚡ **Wide, selectable AC input range** (Appliance / UPS modes)
- ⚡ **Full protection** against battery over-discharge, overload, over-temperature and short circuit
- ⚡ **Auto restart** when mains power is restored
- ⚡ **Cold start** function and **USB monitoring**
- ⚡ **Optional Wi-Fi / Bluetooth** monitoring with mobile app
- ⚡ **Selectable charging profiles** for lithium-ion and lead-acid batteries



500 VDC

MAX. PV INPUT

MPPT

SOLAR CHARGING

10 ms

TRANSFER TIME

Up to 94%

PEAK EFFICIENCY

MODEL LINE-UP

ETA-1.2K	1200 W	ETA-3.6K-PRO	3600 W	ETA-6.5K-PRO	6500 W
Battery voltage	12 V	Battery voltage	24 V	Battery voltage	48 V
PV max. power	3000 W	PV max. power	5000 W	PV max. power	9000 W
Max. PV voltage	450 VDC	Max. PV voltage	500 VDC	Max. PV voltage	500 VDC
Max. charging	100 A	Max. charging	100 A	Max. charging	120 A

MODEL	ETA-1.2K	ETA-3.6K-PRO	ETA-6.5K-PRO
OUTPUT			
Rated Output Power	1200 VA / 1200 W	3600 VA / 3600 W	6500 VA / 6500 W
Peak Efficiency (Battery Mode)	≥ 91%	≥ 92.7%	≥ 94%
Output Connection	L + N + PE		
Rated Output Voltage	208 / 220 / 230 / 240 VAC ± 5%		
Output Frequency	50 / 60 Hz ± 0.1%		
Waveform	Pure Sine Wave		
Overload Capacity (Battery Mode)	60 s @ 102% – 120% load 10 s @ 120% – 200% load	1 min @ 102–110% · 10 s @ 110–130% 3 s @ 130–150% · 0.2 s @ >150%	1 min @ 102% – 120% load 10 s @ > 120% load
Transfer Time	10 ms		
AC INPUT			
Input Connection	L + N + PE		
Rated Input Voltage	208 / 220 / 230 / 240 VAC ± 5%		
Input Voltage Range	Appliance mode: 90 – 280 VAC · UPS mode: 170 – 264 VAC		
Input Frequency	50 / 60 Hz (auto-sensing)		
Max. AC Charging Current	100 A	100 A	120 A
PV INPUT			
Max. PV Input Power	3000 W	5000 W	9000 W
MPPT Tracking Voltage Range	30 – 400 VDC	40 – 450 VDC	60 – 450 VDC
Solar Charging Type	MPPT		
Max. PV Input Voltage	450 VDC	500 VDC	500 VDC
Max. PV Input Current	18 A	18 A	27 A
Max. PV Charging Current	100 A	100 A	120 A
Max. Charging Current (AC + PV)	100 A	100 A	120 A
BATTERY			
Battery Type	Lithium-ion / Lead-acid		
Rated Battery Voltage	12 VDC	24 VDC	48 VDC
Constant Charging Voltage (adjustable)	14.1 V	28.2 V	56.4 V
Float Charging Voltage (adjustable)	13.5 V	27 V	54 V
GENERAL			
Battery-Independent Operation	Yes		
Communication Interface	Optional	RS485 / USB	
Dual Outputs	Optional	Optional	Yes
Expansion Slot	Wi-Fi (optional)		
Display	LCD		
Operating Temperature	-10 °C to 50 °C (output derated to 80% above 40 °C)		
Storage Temperature	-15 °C to 60 °C		
Relative Humidity	20% – 95% (non-condensing)		
Operating Altitude	≤ 1000 m without derating; derating required above 1000 m, max. 4000 m (per IEC 62040-3)		
Cooling	Active cooling		
Noise Level	< 50 dB		
Dimensions (W × H × D)	331 × 270 × 100 mm	280 × 350 × 136 mm	310 × 420 × 136 mm
Net Weight	4.5 kg	6.6 kg	8 kg

Product specifications are subject to change without notice. Images are for illustration purposes only.