

ALL IN ONE

# Eco Beast (Single-Phase)

- 2 MPPTs, Max. 9.6kW PV input
- On/off-grid switching
- Battery module level monitoring
- PV or AC or Generator wake up battery
- Expandable storage – Up to 16pcs in parallel
- Remote monitoring and firmware updates with battery



5kWh

10kWh Standard

15kWh



Model	Eco Beast 6000
<b>INVERTER MODULE</b>	
<b>Input (PV DC)</b>	
Max. PV input power (W)	9600 (4800 / 4800)
Rated PV input voltage (V)	320
Number of independent MPPT inputs	2 / (1:1)
Max. PV input voltage (V)	480
MPPT voltage range (V)	120 ~ 385
Start-up voltage (V)	100
Max. PV input current per MPPT (A)	17 / 17
Max. PV short-circuit current input per MPPT (A)	25 / 25
Max. PV charging current (A)	140
<b>AC Output (Backup)</b>	
Output voltage waveform	Pure sine wave
Output voltage regulation (V)	208 / 220 / 230 / 240 ± 5%
Output frequency (Hz)	50 / 60
Rated output power (W)	6000
Rated output current (A)	26.5
Peak efficiency	93%
Overload protection	5s@≥150% overload; 10s@110%~150% overload
Surge power	2 × rated power for 5s
Switching time	<7 ms@Single; <20 ms@Parallel
<b>AC Input</b>	
Rated input voltage (V)	230
Rated input frequency (Hz)	50 / 60 (Auto detection)
Max. AC input current (A)	39.5
Max. AC input power (W)	9000
Max. AC charging current (A)	140
Rated AC current of bypass relays (A)	60
<b>Gen</b>	
Rated GEN voltage (V)	220 / 230 / 240
Rated GEN frequency (Hz)	50 / 60
Rated GEN input Current (A)	32
Rated GEN input Power (W)	7370
Rated GEN current of bypass relays (A)	60
<b>Battery Connection</b>	
Battery module model	Battery Beast-5
Battery module voltage (V)	38.4 ~ 60
Number of modules per inverter	1 ~ 3
<b>Efficiency</b>	
Max. efficiency	93.5%
Max. charge/discharge efficiency	93.0%
<b>Protection</b>	
Grid monitoring	YES
AC surge protection	Type III
<b>Standards &amp; Certification</b>	
NRS097-2-1:2024,EN/IEC62109-1/-2,EN61000	
<b>Battery Module</b>	
Battery power (kWh)	5.12
Rated voltage (V)	51.2
Rated capacity (Ah)	100
Battery type	Lithium-ion
Max. discharging current (A)	100
Max. charging current (A)	100
Dimension (W × H × D)	580 × 434 × 165 mm / 22.8 × 17.1 × 6.5 in
Net weight	54 kg / 119.1lbs
Standard	UN38.3; CE
<b>General Specifications</b>	
Inverter module weight	17.5 kg / 38.6 lbs
Inverter module dimension (W × H × D)	580 × 350 × 165 mm / 22.8 × 13.8 × 6.5 in
Battery module weight	57.4 kg / 126.5 lbs
Battery module dimension (W × H × D)	580 × 434 × 165 mm / 22.8 × 17.1 × 6.5 in
Ingress protection rating	IP20
Display & Communication interface	LCD + LED, RS485 / Wi-Fi / CAN
Cooling method	Smart cooling
Topology	Transformer-less
Noise emission (dB)	58
Operating temperature range (°C)	0 ~ 45
Storage temperature (°C)	-15 ~ 60
Humidity	5% to 95% Relative Humidity (Non-condensing)
Max. Operating Altitude (m)	2000