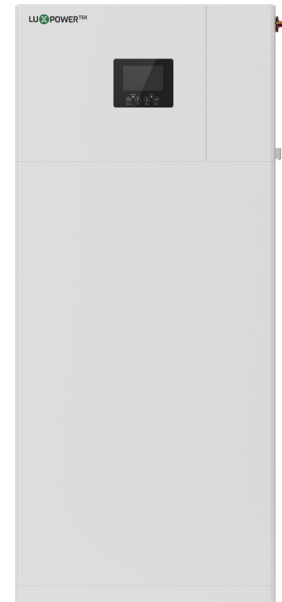


ALL IN ONE

Eco Beast Pro (Single-Phase)

- **Optimized Power Performance**
 - 6.5kW output, 2× surge power (5s)
 - Up to 9.6kW PV input, dual MPPT
 - Pure sine wave, stable backup power
- **Flexible & All-in-One Design**
 - 15kWh battery built in, no external packs
 - PV / Grid / Generator multi-source input
 - Compact cabinet, fast installation
- **Safety & Reliability**
 - Intelligent BMS with 140A charge/discharge
 - AC surge protection & grid monitoring
 - 93% system efficiency
- **Smart Control & Monitoring**
 - Full system visibility in real time
 - Remote control and upgrade via LuxCloud platform
 - Seamless backup switching <7ms



INVERTER MODULE		Eco Beast Pro
Input (PV DC)		
Max. PV input power (W)		9600 (4800 / 4800)
Rated PV input voltage (V)		320
Number of independent MPPT inputs		2
Max. PV input voltage (V)		500
MPPT voltage range (V)		120 ~ 400
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
AC Output (Backup)		
Output voltage waveform		Pure sine wave
Output voltage regulation (V)		208 / 220 / 230 / 240 ± 5%
Output frequency (Hz)		50 / 60
Rated output power (W)		6500
Rated output current (A)		28.3
Peak efficiency		93%
Overload protection		5s@≥150% load; 10s@110%~150% load
Surge power		2 × rated power for 5s
Switching time		<7ms@Single; <20ms@Parallel
AC Input		
Rated input voltage (V)		230
Rated input frequency (Hz)		50 / 60
Max. AC input current (A)		45
Max. AC input power (W)		9000
Max. AC charging current (A)		140
Rated AC current of bypass relays (A)		40
Gen		
Rated GEN voltage (V)		230
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
Battery Connection		
Battery module model		Beast 15
Battery module voltage (V)		38.4 ~ 60
Number of modules per inverter		1
Efficiency		
Max. efficiency		93.0%
Max. charge / discharge efficiency		93.0%
Protection		
Grid monitoring		YES
AC surge protection		Type III
Standards & Certification		
IEC 62109-1, IEC 61000, IEC62040/EN62040, IEC62109, NRS 097-2-1		
Battery Module		
Battery energy (kWh)		15
Rated voltage (V)		51.2
Rated capacity (Ah)		300
Battery type		Lithium-ion
Max. discharging current (A)		140
Max. charging current (A)		140
General Specifications		
Inverter module weight		16.5 kg / 36.4 lbs
Inverter module dimension (W × H × D)		580 × 425 × 175 mm / 22.8 × 16.7 × 6.89 in
Battery module weight		98 kg / 216.1 lbs
Battery module dimension (W × H × D)		580 × 950 × 175 mm / 22.8 × 37.4 × 6.89 in
Ingress protection rating		IP20
Display & Communication interface		LCD + LED, RS485 / Wi-Fi / CAN
Cooling method		Smart cooling
Topology		Transformerless
Noise emission (dB)		< 50
Operating temperature range (°C)		0 ~ 50
Storage temperature (°C)		-15 ~ 60
Humidity		5% to 95% Relative Humidity (Non-condensing)
Max. operating altitude (m)		2000