

ALL-IN-ONE

Ener X Pro 125/241kWh

Outdoor
Application



APPLICATION

Supports direct connection to PV, grid, backup load, and generator, supplying stable power in both on-grid and off-grid modes with a seamless switching time of just 10 ms.



SAFETY

Compartmentalized design with a preventive alarm system.



ECONOMIC

Zero power loss through efficient temperature control and frequency variation.



INTELLIGENT

Offers multiple operation modes, including Peak Shaving, Load Shedding, PV-Storage Energy Control, and Frequency Regulation. Operating data can be transmitted to Ener X Pro Cloud via Wi-Fi, 4G or 5G.



AUGMENTABLE

Preconfigured during manufacturing, plug and play onsite. Capable of parallel connection upgrades for flexible system size application.

The Ener X Pro Series accommodates "All-in-one" design philosophy, integrating battery with longevity, intelligent BMS, high performance PCS, preventive safety system, smart distribution system and heat dissipation management system into one standard container for standardized manufacturing (for outdoor application) and simpler installation.



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Technical Data

MODEL			Ener X Pro 125kW-241kWh	
BATTERY SPECIFICATION				
Battery Type [V / Ah]			LFP 3.2 / 314	
Battery Pack Capacity [kWh]			60.29	
Battery System Capacity [kWh]			241	
Operating Voltage Range [V]			672 ~ 876	
Number of Temperature Sensors			128	
Max. Charging Current [A]			190	
Max. Discharging Current [A]			190	
Battery Pack Protection Level			IP67	
PV SPECIFICATION				
Max. PV Array Power [kW]			250	
Max. PV Input Power [kW]			250	
Withstand Voltage [V]			1000	
PV DC Input Voltage Range [V]			180 ~ 950	
Start-up Voltage [V]			180	
Nominal DC Operating Voltage [V]			750	
MPPT Voltage Range [V]			180 ~ 850	
MPPT Voltage Range [V] (full load)			460 ~ 850	
Max. Current per MPPT [A]			40	
Max. Short Circuit Current per MPPT [A]			50	
No. of MPPTs / Strings per MPPT			8 / 2	
AC OUTPUT (GRID)				
Nominal AC Output Power [kW]			125	
Max. AC Output Power [kVA]			137.5	
Nominal AC Output Current [A]	380V		190.0	
	400V		180.4	
Max. AC Output Current [A]	380V		198.5	
	400V		198.5	
Nominal AC Voltage [V]			220 / 380, 230 / 400, 3W+N+PE or 3W+PE	
AC Voltage Range [Un]			0.8 ~ 1.2	
Nominal AC Frequency [Hz]			50 / 60	
Frequency Range [Hz]			50 / 60, ±5	
Power Factor			0.8 Leading ~ 0.8 Lagging	
Max. THDi [%]			< 3	
AC INPUT (GRID / GENERATOR)				
Max. AC Input Power [kVA]			207	
Max. Bypass Current [A]			300	
Max. Power for Battery Charged [kW]			100	
Nominal AC Voltage [V]			220 / 380, 230 / 400, 3W+N+PE or 3W+PE	
Frequency Range [Hz]			50 / 60, ±5	
EPS OUTPUT (LOAD)				
Max. AC Output Power [kVA]			137.5	
Peak. AC Output Power (10s) [kVA]			155	
LRA Current [A]			300	
Nominal AC Voltage [V]			220 / 380, 230 / 400, 3W+N+PE or 3W+PE	
Nominal AC Frequency [Hz]			50 / 60	
Switching Time [ms]			< 10	
Max. THDv [%]			< 3 @ Rated Power	
EFFICIENCY				
Round Trip Efficiency [%]			88.0	
Max. Efficiency [%]			98.0	
PROTECTION				
DC Input Switch			YES	
PV Reverse Polarity			YES	
AC Overcurrent Protection			YES	
AC Output Short Circuit Protection			YES	
AC / DC Surge Protection			Class II	
ISO Detection			YES	
Residual Current Detection			YES	
Ground Fault Detection			YES	
AFCI			YES	
String Current Detection			YES	
GENERAL SEPECIFICATION				
Dimensions (W * H * D) [mm]			1040 * 2230 * 1500	
Weight [kg]			< 2600	
Operating Temperature [°C]			-25 ~ 55	
Type of Cooling			Liquid Cooling	
Operating Altitude [m]			≤ 3000	
Humidity [%]			0 ~ 100	
Noise [dB]			<75 @ 1 m	
DOD [%]			0 ~ 100	
Cycle Life			≥ 8000 @ 70% EOL	
Communication Interfaces			Ethernet	
Ingress Protection			IP55	
Corrosion Protection			Standard C4, Optional C5	
Fire Protection			Smoke Detector, Heat Detector, Alarm Sounder, / Cabinet-Level / PACK-Level Aerosol, Explosion Vent	
Diesel Generator Compatibility			YES	

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