

All-in-one Air-cooled Hybrid Solar ESS Cabinet

ECO-E64WX

Product Introduction

ECO-E64WS is the entry level PV-plus ESS solution from Elekstor / Elecnova. The ECO-E64WS benefits from the accumulated expertise in the field of ESS integration and digital monitoring technology. Adopting the all-in-one design concept, this PV-plus ESS cabinet integrates a lithium battery ESS, hybrid inverter, HVAC, FSS & BCQ to deliver a compact footprint that enables ease of installation, service and support. The system incorporates a flexible capacity expansion capability supporting multiple operating modes including self-use, peak shaving, and backup power.



Product Features



Economic & Efficient

RTE over 87%, DOD over 95%



In-House Development

PACK, BMS and EMS are all in-house developed ensuring optimum compatibility.



Safe & Reliable

IP55, optimized ventilation design, temperature difference within 6°C



Expandable & Modular

Easy modular design supports parallel connection for convenient system expansion.



Compact & Convenient

0.96m² footprint, easy to transport and install.



Easy O&M

Support multiple ways of operation and maintenance, including onsite, cloud.



PV pluggable

Support PV connection.



Versatile

Support multiple brands of hybrid inverter

Specifications

Battery Input

Cell Type	LFP 120Ah, 100%DOD, 25°C,1P
Battery System	1P168S
Rated Energy	64.512kWh
Rated Voltage	537.6V
Voltage Range	470.4V~604.8V

PV Input

PV Voltage	200V~850V
MPPT	4
MAX. Input Current	30A*4

AC Output

Rated Power	50kW
Max. Power	55kW
Nominal Voltage	400Vac/3P+N+PE
Nominal Frequency	50Hz/60Hz
THDi	< 3%
DC Ratio	< 0.5%I _{pn}
Power Factor	-0.98~0.98

General

Efficiency	≥87%
Charge/Discharge Rate	0.8P
DoD	95%(25±2°C)
Cycle Life	≥5500 Cycles
Ingress Rating	IP55
Cooling	Force air cooling
Operating Temperature	-25~55°C
Humidity	0~95%RH, non-condensing
Altitude	≤2000m(derating above 2,000m)
Dimensions(W*D*H)	800*1200*2030mm
Weight	1t
Fire Safety	Aerosol
Connective	Ethernet/RS485
Compliance	UN38.3, IEC62477, IEC61000, IEC62619, IEC63056, UL9540A, EN50549 G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1 / EN 50549-10, VDE 0126 / UTE C 15 / VFR,2019, NTS 631 / RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727 , IEC 60068 , IEC 61683, EN 50530, MEA, PEA, PORTARIA N° 140, DE 21 DE MARÇO DE 2022
Grid Connection Certifications	

