EleKstor
EMPOWERING SUSTAINABILITY

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

ECO-E107WS

Product Introduction

ECO_E107WS is the higher capacity PV-plus ESS solution by Elekstor /Elecnova. The ECO-E107WS 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 90%, DOD over 95%

Safe & Reliable
IP55, optimized ventilation design, temperature difference within 6℃

Compact & Convenient
0.96㎡ footprint, easy to transport and install.

PV pluggable
Support PV connection.

In-house developed
LFP280Ah battery cell system integration, leading cost advantage, 3S fusion.

Expandable & Modular
Easy modular design supports parallel connection for convenient system expansion.

Easy O&M
Support multiple ways of operation and maintenance, including onsite, cloud.

Versatile
Support multiple brands of hybrid inverter

Specifications

Battery Input

Cell Type	LFP 280Ah, 100%DOD, 25℃,0.5P
Battery System	1P120S
Rated Energy	107.52kWh
Rated Voltage	384V
Voltag Range	336~432V

PV Input

PV Voltage	150V~850V
MPPT	4
MAX. Input Current	40A*4

AC Output

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

General

Efficiency	≥90%
Charge/Discharge Rate	0.5P
DoD	95%(25+2℃)
Cycle Life	≥8000 Cycles
Ingress Rating	IP55
Cooling	Force air colling
Operating Temperature	-25~55℃
Humidity	0~95%RH, non-condensing
Altitude	≤2000m(derating above 2,000m)
Dimensions(W*D*H)	800*1200*2100mm
Weight	1.2 t
Fire Safety	Aerosol
Connective	Ethernet/RS485
Compliance	UN38.3, IEC62477, IEC61000, IEC62619, IEC63056, UL9540A, EN50549
Grid Connection Certifications	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

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