

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

ECO-E107WS

ECO-E107WS is a professional PV-plus ESS solution provided by Elecnova through its long-term accumulation in the field of ESS integration and digital monitoring technology. Adopting the all-in-one design concept, this PV-plus ESS cabinet highly integrates equipment such as lithium battery ESS, hybrid inverter, HVAC, FSS, BCQ, etc. The product has a compact structure, easy installation, and flexible capacity expansion, supporting multiple operating modes such as self use, peak shaving, and backup power.



Economic & Efficient

RTE over 90%, DOD over 95%.



Safe & Reliable

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



Compact & Convenient

0.96m² footprint, easy to transport and install.



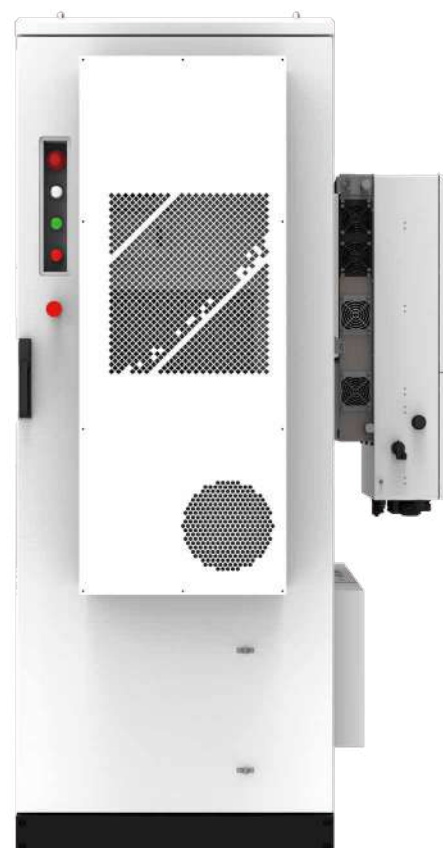
Expandable & Modular

Easy modular design supports parallel connection for convenient system expansion.



Versatile

Support multiple brands of hybrid inverter, with higher selectivity.



PV pluggable

Support PV connection, with higher integration.



Self-developed

LFP280Ah battery cell system integration, leading cost advantage, 3S fusion.



Easy O&M

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

Specifications

Battery Input

Cell Type	LFP 280Ah
Battery System	1P120S
Rated Energy	107.52kWh
Rated Voltage	384V
Voltage Range	336~432V

PV Input

Recommended input power Max.	60kW	80kW	100kW
PV Voltage	150V~850V	150V~850V	150V~850V
MPPT	3	4	4
MAX. Input Current	40A*3	40A*4	40A*4

AC Output

Rated Power	30kW	40kW	50kW
Max. Power	30kVA	40kVA	50kVA
Nominal Voltage	400Vac/3P+N+PE		
Nominal Frequency	50Hz/60Hz		
THDi	<3%		
DC Ratio	<0.5%I _{pn}		
Power Factor	0.8 leading~0.8 lagging		

General

Efficiency	≥90%
Charge/Discharge Rate	0.5P Max.
DoD	95%(25±2°C)
Cycle Life	≥8000 Cycles
Ingress Rating	IP55
Cooling	Force air colling
Operating Temperature	-25~55°C
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 Nº 140, DE 21 DE MARÇO DE 2022

