

COMMERCIAL AND INDUSTRIAL ESS

Model: OST-ESS-107kWh

OSPOWER
Manufacture by Highstar

Air-cooled PV Integrated Energy Storage Cabinet

Suitable for industrial and commercial energy storage scenarios

Safe and Reliable

- ◆ IP55, Reasonable air duct design, with a temperature difference $< 6^{\circ}\text{C}$.

Compact in Size

- ◆ The floor area is only 0.96m^2 . Convenient for transportation and installation.

Easy for Expansion

- ◆ Modular Design, Supports parallel connection. Convenient for system expansion.

Flexible Combination

- ◆ Supports a variety of brands of hybrid inverters, offering a wider range of choices.

Easy for Operation and Maintenance (O&M)

- ◆ Supports multiple operation and maintenance (O&M) methods, including on-site and cloud-based options.

Developed independently

- ◆ The LFP280Ah battery cell system integration offers a leading cost advantage and features a 3S integration.

Economical and Efficient

- ◆ RTE $> 89\%$, DOD $> 95\%$.

Photovoltaic (PV) Connection

- ◆ Supports photovoltaic (PV) connection, with higher integration



COMMERCIAL AND INDUSTRIAL ESS

Model: OST-ESS-107kWh

OSPOWER
Manufacture by Highstar

Product Specification

Model	OST-ESS-107kWh		
Battery Parameters			
Cell Type	LFP-3.2V-280Ah		
Battery PACK	17.92kWh / 1P20S		
System Energy	107.52kWh / 1P120S		
Nominal Voltage (Voltage Range)	384V, 336~432V		
AC Parameters			
Nominal Power	30kW	40kW	50kW
Max. Power	30kVA	40kVA	50kVA
Nominal AC Voltage	400Vac / 3P+N+PE		
Nominal Frequency	50Hz		
AC Voltage THD	<3%		
DC Current Injection	<0.5%I _{pn}		
PV Parameters			
Maximum Input Power	60kW	80kW	100kW
PV Voltage	150 ~ 850Vdc		
MPPT	3	4	4
MaximumInput Current	40A*3	40A*4	40A*4
System Parameters			
Refrigeration / Heating	Forced air cooling / Heating with a heating dehumidifier		
Maximum System Efficiency	≥ 89%		
IP Rating	IP55		
Charge / Discharge Rate	0.5P		
Depth of Discharge	95%DOD(25±2℃)		
Cycles	≥ 8000		
Operating Temp. Range	-40℃ ~ 60℃		
Allowed Humidity Range	0 ~ 95%(RH),No condensation		
Fire Protection System	Aerosol		
Communication	Ethernet/RS485		
Weight	1200kg		
Dimension(W*D*H)	800*1200*2100mm		
Altitude	≤ 2000m (Derated operation above 2000m)		

Manufacture reserve the right to alter or amend the design,model and specification without prior notice