

ESSC-HY5-EV7-BAT5

Energy Storage System with EV Charger

Specifications



PV, Storage, EV charging and Power distribution Integrated.



Controlled by built-in DSP and adopt advanced SPWM technology.



Modular design for good expansibility, up to 6 battery modules in parallel.



Easy Installation within 20 minutes individually.



24-hour real-time online monitoring.



Wheels for the machine are optional and available at an additional cost.

ESSC-HY5-EV7-BAT5 | Specifications

Model	ESSC-HY5-EV7-BAT5	ESSC-HY8-EV11-BAT10
Inverter Data		
Max. PV Input Power(W)	7000W	11000W
PV Input Voltage Range(V)	150~500	150~1000
MPPT Operating Voltage Range(V)	120~430	150~800
Number of MPP Trackers	2	2
Number of Strings per MPPT	1	1
Max. Input Current per MPPT	15A/15A	18A/18A
Nominal Utility Grid Voltage(V)	220/230/240	380/400
Nominal Utility Grid Frequency(Hz)	50/60	50/60
Rated Power Output to Utility Grid(W)	5000	8000
Max. Apparent Power Output to Utility Grid(VA)	5500	8800
Back-up Rated Power(W)	4500	7200
Switch Time	<10ms	<15ms
Battery Data		
Battery Type	LiFePO4	Lithium / Lead-Acid
Single Battery Energy(kWh)	5.12	10
No. of Expandable Batteries	6	6
Usable Energy Range(kWh)	5.12~30.72	10.24~61.44
Battery Voltage Range(V)	41.6~58.5	41.6~58.5
EV Charger Data		
Rated Power(W)	7000	11000
Nominal Voltage(V)	220 / 230 / 240	380/400
Nominal Frequency(Hz)	50 / 60	50 / 60
Operation Mode	Swipe card/APP control/Insert charger plug to start automatically /Schedule appointment for charging	
Output cable	5m AC charging cable	
Convexion Efficiency		
Max. Efficiency	98%	98%
EU Efficiency	97%	97.5%
Max. Battery to AC Efficiency	95%	94.5%
MPPT Efficiency	99.9%	
System Data		
Operating Temperature Range (°C)	-25~55°C	-25~60°C
Relative Humidity	≤95% (25°C)	≤0-95%
Vibration	<0.5G	<0.5G
Noise	<35 dB	<25 dB
Installation Altitude above Sea Level	<2000m	≤4000m
Protection Level	IP54	IP66
Cooling Mode	Natural Cooling	Air Cooling
Communication	RS485/CAN/WiFi	RS485/CAN/WiFi
Inverter Dimensions (W xH x D mm)	645 x 557 x 370	
EV Charger Dimensions (W xH x D mm)	650 x 270 x 370	
Single Battery Dimensions(W xH x D mm)	585 x 270 x 370	
Base Dimensions (W xH x D mm)	680 x 110 x 378	