



Sun Power Energy
Corporation

Evolution

EVO-EUS2-HVP3-5-20K/8~24kWh

AIO household high-voltage energy storage system



Modules are connected in series without cable connection, and high-voltage platform improves system efficiency



All-in-one design, integrated 10kW three phase hybrid inverter and 16kWh high voltage battery



100% unbalanced output, each phase; Max. output up to 50% rated power



Max. 10pcs parallel for on-grid and off-grid operation



Support storing energy from diesel generator



The heating function is optional to meet the application scenarios with low temperature and no sense



Temperature detection of key parts, cell, power plug-in, etc

Technical Parameter

Model	EVO-EUS2-HVP3-5-20K/8-24kWh						
Inverter parameters							
Rated AC output power (W)	5000	6000	8000	10000	15600	19500	19500
Maximum AC output power (W)	5500	6600	8800	11000	15600	19500	19500
Factor	-0.8~0.8						
Peak power	1.5 times rated power						
Rated output voltage	380Vac						
Grid type	three-phase						
Grid frequency	50/60Hz						
Maximum DC input power (W)	6500	7800	10400	13000	12000	13000	20000
Rated DC input voltage (V)	600						
Start-up voltage (V)	150						
MPPT voltage range (V)	150~850						
Full load MPPT voltage range (V)	350~850						
Number of MPPTs	2						
DC input current (A)	13+13	13+13	13+13	26+13	26+20	26+20	26+26
Maximum DC short-circuit current (A)	17+17	17+17	17+17	34+17	39+30	39+30	39+39
Display screen	LCD						
Size (W*D*H,mm)	540*385*450						
Weight (kg)	40						
BMS communication port	CAN						
Safe	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						
Grid certification	VDE0126-1-1, RD 1699, C10-11, CEI0-21, VDE-AR-N 4105,NRS 097IEC 62116, IEC 61727, G99, G98						
Maximum efficiency	97.60%						
MPPT efficiency	99.90%						
Battery module parameters							
Battery module energy (kWh)	4.09						
Module voltage rating (V)	102.4						
Module extensibility	Stack 6 modules for scalability up to 40.9kWh						
Charge-discharge ratio	0.5C						
DOD	90%						
Battery module weight (kg)	39						
Battery module size(W*D*H,mm)	540*385*220						
Battery base size(W*D*H,mm)	540*385*100						
High voltage box size(W*D*H,mm)	540*385*110						
Number of cycles	≥6000 times						
Battery module certification	IEC62619, CE, VDE2510-50, CEI 0-21, UN38.3						
system parameter							
system parameter	IP65						
Operating temperature range	charging: 0~55℃／discharging: -20℃~60℃						
Storage temperature	-20℃~35℃						
Humidity	15%~85% (No condensation)						
Authentication	VDE-AR-N 4105, IEC 60730, CE, VDE 2510-50, CEI 0-21						
Warranty	Battery 10 years, Inverter 5 years						