



Sun Power Energy
Corporation

Evolution

EVO-EU-LVP1-3.6-8K/5~30kWh

AIO household low-voltage
energy storage system



Integrated energy storage system



All-in-one design with
integrated single-phase
hybrid inverter and battery
module



Fast changeover time of 4 ms
ensures your energy security



Leading intelligent
applications, peak shaving,
intelligent load and AC
coupling, etc



Modular design, 5kWh per
module, expandable Stacks
up to 30kWh and expands
up to 184kWh



Flat stackable design, support
floor and wall mounting, no
wiring required, quick and
easy installation



Comfortable and easy
control via APP/PC
or display

Technical Parameter

Model	EVO-EU-LVP1-3.6-8K/5-30kWh			
Inverter parameters				
Rated AC output power （W）	3600	5000	6000	8000
Maximum AC output power （W）	3690	5500	6600	8800
Factor	-0.8～0.8			
Peak power	2times rated power			
Rated output voltage	220/230Vac			
Grid type	single phase			
Grid frequency	50/60Hz			
Maximum DC input power （W）	6500	6500	7800	10400
Rated DC input voltage （V）	370 （125～500）			
Start-up voltage(V)	125			
MPPT voltage range （V）	150～425			
Number of MPPTs	2			
DC input current （A）	13+13	13+13	26+13	26+26
Maximum DC short-circuit current （A）	17+17	17+17	34+17	34+34
Display screen	LCD			
Size （W*D*H,mm）	750*255*330			
Weight （kg）	34			
BMS communication port	CAN			
Safe	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IECEN 61000-6-4			
Grid certification	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0-21, EN50549-1, G98, G99, C10-11, UNE 217002, NBR 16149/NBR 16150			
Maximum efficiency	97.60%			
MPPT efficiency	99.90%			
Battery module parameters				
Battery module energy (kWh)	5.12			
Module voltage rating (V)	51.2			
Module extensibility	Stack up to 6 modules and expand up to 184kWh			
Charge-discharge ratio	0.5C			
DOD	90%			
Battery module weight （kg）	53			
Battery module size(W*D*H,mm)	720*255*285			
Battery base size(W*D*H,mm)	720*255*90			
High voltage box size(W*D*H,mm)	720*255*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℃～55℃			
Storage temperature	-20℃～35℃			
Operation Humidity	15%～85% （No condensation）			
Authentication	IEC62619, IEC 60730, CE, VDE 2510-10, CEI 0-21			
Warranty	Battery 10 years, inverter 5 years			