

Energy Pod Detailed Technical Specifications

Solar					
Max. PV Power [W]	6000				
Nominal DC Power [W]	5000				
Max. DC voltage [V]	580				
MPPT voltage range [V]	125-550				
Starting voltage [V]	150				
Max. DC current [A]	15/15				
No. of DC connectors	2				
No. of MPPTs	2 (can parallel)				
Battery					
Battery type	Li-Iron-Phosphate (LiFePO4)				
Nominal Voltage [V]	48				
Max Discharge power [W]	4600				
Battery capacity [Ah]	a100 (depending requirement)				
Charging curve	3-stage adaptive with maintenance				
Charging voltage [V]	57 (optional)				
Battery temperature compensation	Included				
Battery voltage sense	Integrated				
Current shunt	Integrated				
Depth of Discharge	20%	40%	60%	80%	98%
Expected cycles	16,600	11,500	7,100	4,400	2,000
Operating temperature range	-20°C to 65°C				
Rated Voltage (V)	48				
Rated Capacity (Ah)	50				
Nominal Capacity per stack (KWh)	2.4 KWh				
Number of stacks per system	Up to 6 stacks				
Dimensions of each stack (W/D/H)	442/300/177				
Weight per stack (KG)	31.8 kg				
Charge Voltage (DCV)	Float Voltage (DCV)		53~54 (suggested 53.5)		
	Boost voltage(DCV)		55~56.4 (suggested 56.4)		
Charging Current (A)	Maximum 20A				
Discharging voltage(DCV)	40~56.4				
Discharging current(A)	≤50				
Battery Management System	High performance battery management system included.				
AC Output Data					
Nominal AC power [W]	4600				
Max. AC power [W]	4600				
Peak power (Back-up) [W]	1.5x Pnom, 10sec				
Max. AC current [A]	20				
Nominal AC output	50/60HZ; 230Vac				
AC output range	45-55Hz/55-65Hz; 180~270Vac				
AC output (Back-up)	230Vac ±2%, 50Hz(60Hz optional) ±0.2%, THDv<3% (linear load)				
THDi	<1.5%				

Power factor	0.8 leading~0.8 lagging
Grid connection	Single phase
Efficiency	
Max. efficiency	97.6%
Euro efficiency	>97.0%
MPPT adaptation efficiency	99.9%
Protection	
Residual current monitoring unit	Integrated
Anti-islanding protection	Integrated
DC switch (PV)	Integrated (optional)
AC over current protection	Integrated
Insulation monitoring	Integrated
Certifications & Standards	
Grid regulation	VDE-AR-N4105, VDE 0126-1-1, G83/2, G59/3, AS4777.2/.3
Safety	IEC62109-1&-2, AS3100, IEC62040-1
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-3-11, EN61000-3-12
Battery	CE, UL, TUV
Inverter General Specs	
Dimensions (W/D/H)	70 cm x 55 cm x 130 cm
Battery Weight	32 kg (per battery cartridge)
System Weight	Casing + electronics 112 kg (batteries not included)
Shell	Iron
Shell Colour	Cream
Ambient temperature range	-25~60°C (>45°C derating)
Relative humidity	0-95%
Max. operating altitude	4000m(> 3000m derating)
Protection degree	IP65
Topology	Transformerless
Standby losses [W]	<8
Cooling	Nature convection
Noise emission [dB]	<25
Display	LED light &APP
Communication	USB2.0; WiFi
Standard warranty [years]	5 years for Electronics. 5 years for LiFePO4 batteries.

