

EG4-LifePower4-CAB ESS Specifications

ESS Model Number	PP-100A13-18K1-LP	PP-100A14-18K1-LP	PP-100A15-18K1-LP	PP-100A16-18K1-LP
PV Input Data				
Number of MPPTs per Inverter	3			
Max. Power Current	25A / 15A / 15A			
Max. Short Circuit Current	31A / 19A / 19A			
MPPT Voltage Range	100~600 VDC			
MPPT Operating Voltage	120~500 VDC			
Max. Solar Power	18kW Usable 21kW STC			
AC Specifications				
Nominal AC Voltage	120/240V 120/208V			
Frequency	50Hz 60Hz			
AC Bypass	200A (Grid) 90A (Generator)			
Max. Cont. Line Wattage	8kW per 120V line per inverter			
Switchover Time	10ms			
AC Power (Solar + Battery)				
Rated Output Current	50A			
Rated Output Power	12kW @ 240V 10.4kW @ 208V			
Peak Power	14.7kW (10 min) 15.5kW (5 min)			
AC Power (Battery Only)				
Rated Output Current	50A			
Rated Output Power	12kW @ 240V 10.4kW @ 208V			
Peak Power	13.5kW (10 min)			
Battery Specifications				
Nominal Voltage	51.2V			
Total Amp-Hours	300Ah	400Ah	500Ah	600Ah
Total Storage Capacity	15.36kWh	20.48kWh	25.6kWh	30.72kWh
Max. Charge Current	250A+ (per inverter)			
Max. Discharge Current	250A+ (per inverter)			
General Data				
Max. Efficiency PV to Grid	97.5%			
Max. Efficiency Battery to Grid	94%			
Idle Consumption (per Inverter)	~70W (normal) ~18W (standby)			
Noise Emission (per Inverter)	68dB @ 3ft			
Altitude	<2,000m			
Operating Temperature Range	-25~60°C, >45°C derating			
Dimensions of Inverter	34.3×20.5×11.2in.			
Dimensions of Conduit Box	9.13×24.13×10.57in.			
Dimensions of Battery	6.1×19×17.4 in.			
Dimensions of Battery Rack	24×26×46in.			
ESS Communication Protocol	RS485 CAN			
ESS Warranty	10-year			
Safety				
Safety Metrics and Certifications	UL1741SB Rule 21, RSD NEC 2020:690.12, AFCI NEC 2020:690.11 / UL1699B, GFDI NEC 2020:690.41 (B), CSA 22.2.107.1, CSA 22.2.330, UL9540			
ESS Weather Rating	Indoor Only IP20			
Integrated Disconnect	Yes			
PV Reverse Polarity Protection	Yes			

ESS Model Number	PP- 100A26- 18K2-LP	PP- 100A27- 18K2-LP	PP- 100A28- 18K2-LP	PP- 100A29- 18K2-LP	PP- 100A210- 18K2-LP	PP- 100A211- 18K2-LP	PP- 100A212- 18K2-LP
PV Input Data							
Number of MPPTs per Inverter	3						
Max. Power Current	25A / 15A / 15A						
Max. Short Circuit Current	31A / 19A / 19A						
MPPT Voltage Range	100-600 VDC						
MPPT Operating Voltage	120-500 VDC						
Max. Solar Power (per inverter)	18kW Usable 21kW STC						
AC Specifications							
Nominal AC Voltage	120/240V 120/208V						
Frequency	50Hz 60Hz						
AC Bypass	200A (Grid) 90A (Generator)						
Max. Cont. Line Wattage	8kW per 120V line per inverter						
Switchover Time	20ms						
AC Power (Solar + Battery)							
Rated Output Current	100A						
Rated Output Power	24kW @ 240V 20.8kW @ 208V						
Peak Power	29.4kW (10 min) 31kW (5 min)						
AC Power (Battery Only)							
Rated Output Current	100A						
Rated Output Power	24kW @ 240V 20.8kW @ 208V						
Peak Power	27kW (10 min)						
Battery Specifications							
Nominal Voltage	51.2V						
Total Amp-Hours	600Ah	700Ah	800Ah	900Ah	1000Ah	1100Ah	1200Ah
Total Storage Capacity	30.72kWh	35.84kWh	40.96kWh	46kWh	51.2kWh	56.32kWh	61.44kWh
Max. Charge Current	250A+ (per inverter)						
Max. Discharge Current	250A+ (per inverter)						
General Data							
Max. Efficiency PV to Grid	97.5%						
Max. Efficiency Battery to Grid	94%						
Idle Consumption (per Inverter)	~70W (normal) ~18W (standby)						
Noise Emission (per Inverter)	68dB @ 3ft						
Altitude	<2,000m						
Operating Temperature Range	-25~60°C, >45°C derating						
Dimensions of Inverter	34.3×20.5×11.2in.						
Dimensions of Conduit Box	9.13×24.13×10.57in.						
Dimensions of Battery	6.1×19×17.4 in.						
Dimensions of Battery Rack	24×26×46in.						
ESS Communication Protocol	RS485 CAN						
ESS Warranty	10-year						
Safety							
Safety Metrics and Certifications	UL1741SB Rule 21, RSD NEC 2020:690.12, AFCI NEC 2020:690.11 / UL1699B, GFDI NEC 2020:690.41 (B), CSA 22.2.107.1, CSA 22.2.330, UL9540						
ESS Weather Rating	Indoor Only IP20						
Integrated Disconnect	Yes						
PV Reverse Polarity Protection	Yes						



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