

Description and Specifications

	eco 4	eco 6	eco 8	eco 10	eco 12	eco 14	eco 16
Usable capacity (100% DOD)	4 kWh	6 kWh	8 kWh	10 kWh	12 kWh	14 kWh	16 kWh
Maximum storage power rating (at 25 deg C)	3kW	4kW	4kW	7kW	8 kW	8 kW	8 kW
Dimensions W"/H"/D" (approx.)	26x55 x14	26x55 x14	26x55 x14	26x75 x14	26x75 x14	26x75 x14	26x7" x14
Weight (approx.)	377 lbs.	437 lbs.	496 lbs.	622 lbs.	683 lbs.	741 lbs.	800 lbs.
Nominal current		16.7A			33.3A		
Cell chemistry	Lithium iron phosphate (LiFePo ₄)						
Nominal voltage	120/240VAC						
Device protection	Short circuit, overload, over temperature						
Acceptable ambient temperature	32 °F - 113 °F (0 °C - 45 °C)						
Maximum Humidity	90%, non-condensing						
Applications	self-consumption, backup						
Grid integration	AC coupled						

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On-grid specifications

Nominal power	3kW	4kW	4kW	7kW	8kW	8kW	8kW
Nominal AC current	12.5A	16.67A	16.67A	29.16A	33.33A	33.33A	33.33A

Off-grid specifications

Nominal power	3kW	4kW	4kW	7kW	8kW	8kW	8kW
Nominal AC current	12.5A	16.67A	16.67A	29.16A	33.33A	33.33A	33.33A
Max power	100 ms – 8.5KVA 5s – 6KVA 30m – 4.5KVA			100 ms – 16.97KVA 5s – 12KVA 30m – 9KVA			
Max AC current (charge/discharge)	1 ms – 50A 100 ms – 35.35A 5s – 25A 30m – 18.75A			1 ms – 100A 100 ms – 70.7A 5s – 50A 30m – 37.5A			
Overcurrent protection needed	30A			50A			

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General specifications

Transfer switch	Automatic, integrated
Backup capacity	2 kilowatt-hours per battery module, up to 16 kilowatt-hours
Certifications	UL Recognized Components: Battery modules –UL1973; Inverter – UL1741; ATS – UL1008; AC Breaker – UL489
Warranty	Inverter, 10 years; battery modules, 10 years or 10,000 cycles; cabinet and components, 1 year
Inverter efficiency	92.5% CEC weighted, 95.0% peak
Roundtrip Eff% (Grid <> Battery)	>= 86%
Comm. ports	Serial, Ethernet
Comm. protocols	Modbus, Z-Wave
Comm. and control standards	Open ADR 2.0, SunSpec Alliance
EMC / EMI protection	FCC Part 15B
Total harmonic distortion	<5% L1-L2, <2% L-N
Cooling Method	Forced air
Noise emission	< 35dBA

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AC Specifications

AC input rated current	Pass through: 200 amps @ 240VAC Power plant: 33.33 amps @ 240VAC
AC output voltage	120/240 volts
AC grid voltage	120/240 volts
Nominal frequency	60 Hz
Adjustable frequency range	+/- 0.7 Hz from nominal
Metering capability	Power meter for load and PV production; +/- 0.5 RDG (current/voltage)
Tare losses (W)	60 watts
Transient protection	IEEE C62.41 Class B

Transfer switch specifications

Current rating	200 amps switching and overcurrent protection
Voltage rating	120/240 VAC
Contacts	Silver-plated
Certification	UL Recognized Component

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Fault Current @ 240VAC	22,000 amps						

Battery specifications

Voltage	48-56 VDC						
Capacity	4-16kWh (2 kWh per module)						
Charge current	30A per module nominal, 70A per module max						
Cell discharge	100% DoD						
Overcharge Protection	Fuse protection						

Sizing requirements in relation to PV inverter

eco	4	6	8	10	12	14	16
Minimum PV size	1.6 KW	2.4 KW	3.2 KW	4 KW	4.8 KW	5.6 KW	8 KW
Ideal PV size	4 KW	4 KW	4 KW	8 KW	8 KW	8 KW	8 KW