EG4 8KEXP-240V

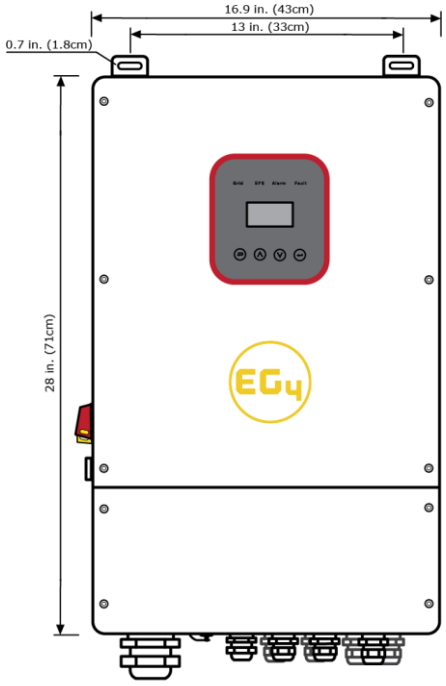
Hybrid Inverter/Charger

The EG4 8KEXP-240V is a standalone, split-phase output, 48-volt, all-in-one hybrid inverter, AC charger, and solar MPPT charge controller unit. Parallel capacity is built in, with systems up to four units and 32kW capacity possible. The unit has a communication platform based on the integrated LCD control panel, allowing for on-site configuration, firmware updates, and WiFi-based cloud monitoring.

Pure Sine Wave

Closed Loop Communication with EG4 48V Batteries

8000W Continuous Output



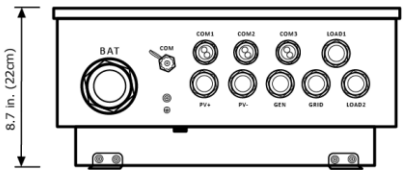
True Hybrid AC Output
Sell excess power back to the grid.

500 VDC Max
Extra high voltage means smaller wire size with 12,000W max PV input. No need for a combiner box.

Parallel up to 4 Units
Stackable design to fulfill varying power needs.

Attachable Wi-Fi Unit
Wireless communication between the inverter and the monitoring platform. (App available in both Apple and Google Play Stores.)

120/240 AC Output in a Single Unit
The built-in pure copper transformer will produce 120/240V power in each unit.



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EG4 8KEXP-240V

Hybrid Inverter/Charger

General Inverter Specifications	
Number of Stackable Inverters	4
Nominal AC Input Voltage	120/240 VAC (L1/L2/N required)
Max AC Input Voltage Per Leg	140VAC
Nominal Input Frequency	50Hz/60Hz (auto detection)
Transfer Time	UPS Mode-10 ms typical | Appliance Mode-20 ms typical
Backup Mode Specifications	
Rated Output Power	8000W
Output Voltage Waveform	Pure Sine Wave (<2% THD)
Output Voltage Regulation	120/240VAC +/- 2%
Output Frequency	50Hz or 60Hz (selectable)
Battery to Inverter Efficiency	97% peak
PV to Inverter Efficiency	95% peak
Overload Protection	5s @ 150% load | 10s @ 110% to 150% load
Surge Capacity	12kW for 1 second
Solar Input Specifications	
Rated Power	12,000W (3000W per MPPT)
Max PV Array Open Circuit	500VDC
MPP Range	120VDC – 500VDC
Max Input Current Draw/Short Circuit Input Draw	12A/15A (per MPPT)
Number of MPPTs	4
Max Charging Current (PV alone or combined AC and PV)	190A
Environmental Specifications	
Operating Temperature Range	-25°C to 60°C
Application Type	Outdoor/Indoor
Humidity	0% to 95% relative humidity (non-condensing)
IP Rating	IP65/NEMA 3R
Idle Power Consumption	115W average
Operating Altitude	0 to 9,842.5 ft. (0 to 3000m)
Physical Specifications	
Dimensions (H×W×D)	28×17×8.6 in. (71×43×22 cm)
Net Weight	90.3 lbs. (41 kgs)
Warranty Information	
Warranty	5 years with EG4 batteries in closed loop or 3 years standalone use

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