

# EG4® CHARGEVERTER PLUS



The EG4® Chargeverter Plus is a robust AC to DC converter designed specifically for 48 VDC lithium battery charging in on-grid and off-grid Energy Storage Systems. The charger can operate on 120, 208, or 240 VAC and is capable of up to 100A of DC charging current and IP-54 rated for outdoor installation.

48 V / 100 A  
BATTERY  
CHARGER

RS485  
COMMUNICATION  
PORT

AUTO  
GENERATOR  
START

## 120VAC/208VAC/240VAC INPUT CAPABILITY

Optimized for 240VAC power supplies for maximum output. 120VAC or 208VAC input can be used with an optional adapter plug.

## RS485 COMMUNICATIONS PORT

An RS485 port on the side of the Chargeverter Plus allows the user to establish closed-loop communication between the charger and battery. This facilitates the exchange of SOC information for user-defined charging thresholds. Without closed-loop communication (SOC information), the charger uses battery voltage for user-defined charging thresholds.

## BUILT-IN BREAKER

The unit has a built-in breaker to quickly shut off the charger output for added safety and protection.

## OPTIMIZED FOR GENERATOR USE

Plug the Chargeverter Plus directly into a generator to charge batteries without concern for generator power quality issues, commonly referred to as "dirty power." Connect the automatic generator start circuit to the Chargeverter Plus dry contacts to allow the generator to charge the battery bank at preset start/stop voltages or SOC thresholds.

## IP-54 RATED

Rated for protection from limited dust ingress and splashing water, allowing for installation outside.

## TECHNICAL SPECIFICATIONS

CHARGER OUTPUT SPECIFICATIONS	
CHARGE CURRENT (ADJUSTABLE)	0 – 100A @ 240 VAC   0 – 50A @ 120 VAC   0 – 80A @ 208 VAC
CHARGE VOLTAGE (ADJUSTABLE)	40 – 60 VDC (default 40 VDC)
OUTPUT RIPPLE	<500mv
MAXIMUM OUTPUT	5120W @ 240 VAC   2560W @ 120 VAC
AC INPUT SPECIFICATION	
AC INPUT VOLTAGE RANGE	90 – 264 VAC
AC FREQUENCY	50 – 60Hz
MAXIMUM INPUT CURRENT	26A @ 240 VAC   28A @ 120 VAC
IDLE CONSUMPTION	~4W
ENVIRONMENTAL SPECIFICATIONS	
OPERATING TEMPERATURE RANGE	-40° – 131°F (-40° – 55°C)
STORAGE TEMPERATURE RANGE	-40° – 158°F (-40° – 70°C)
HUMIDITY	5% – 95% relative humidity (non-condensing)
INGRESS PROTECTION	IP54
OPERATING ALTITUDE	0 – 9843 ft. (0 – 3000 m)
DRY CONTACT SPECIFICATIONS	
INTERFACE CONNECTOR	NO, NC, and C
GENERAL SPECIFICATIONS	
BATTERY COMPATIBILITY	15s or 16s Cell Lithium Batteries
COMMUNICATION PORT	CAN/RS485 (RJ45)
DIMENSION H × W × D	4.3 × 16.1 × 7.1 in. (110 × 410 × 180 mm)
NET WEIGHT	13.67 lbs. (6.2 kg)
CERTIFICATIONS	UL1012, FCC CLASS B
NOISE	<65db
WARRANTY	3 years* (only when used indoors)

\*For information regarding warranty registration on EG4® Electronics products, please navigate to <https://eg4electronics.com/warranty/> and select the corresponding product to begin the registration process.

## CHANGELOG

V1.0

- Published document