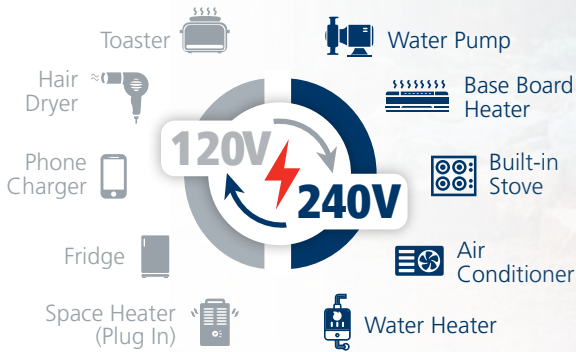


# A Better Way to do Off-Grid

**NEW** **EVO-4248SP**  
**INVERTER/CHARGER**

## 120/240V Split Phase AC Power

This inverter/charger is a split phase 4200W unit, with 48 VDC input, which meets the needs of most common off-grid residential systems.



**MODELS: 4200W** | **48 VDC** | **120 / 240 VAC**

**3 YEAR LIMITED WARRANTY**  



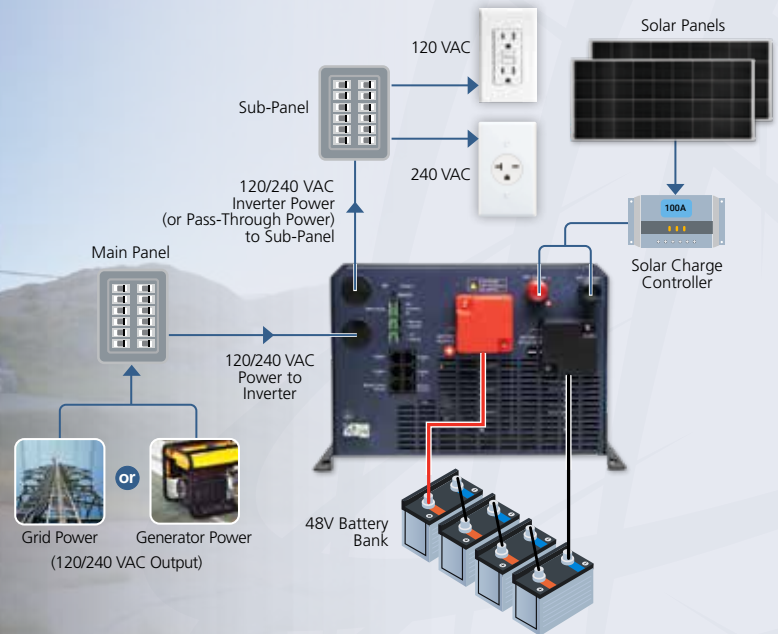
**EVO-RC-PLUS**

Optional Remote Control supports up to 32GB SD card for data logging.

Run an emergency backup system, a fully equipped off-grid cabin, or a remote mobile construction site, when you combine it with a 48V battery bank and a solar system.



## 120/240V Split Phase AC Power



MODEL NO.	EVO-4248SP	
	120 VAC SINGLE PHASE	120/240 VAC SPLIT PHASE
<b>INPUT CONFIGURATION</b>		
<b>INVERTER</b>	120 / 240 VAC $\pm$ 5% Split Phase, 60 Hz $\pm$ 0.1 Hz, Pure Sine Waveform $<$ 5% (See Note 4)	
NOMINAL AC OUTPUT VOLTAGE, FREQUENCY, THD		
CONTINUOUS OUTPUT POWER AND POWER FACTOR (PF)	2100 Watt (PF 0.95)	4200 Watt (PF 0.95)
CONTINUOUS AC OUTPUT CURRENT	17.5A	
SURGE POWER FOR 1 MSEC	300% (6,300VA)	300% (12,600VA)
SURGE POWER FOR 100 MSEC	200% (4,200VA)	200% (8,400VA)
POWER BOOST FOR 30 SEC	150% (3,150VA)	150% (6,300VA)
POWER BOOST FOR 1 MIN	140% (2,940VA)	140% (5,880VA)
POWER BOOST FOR 10 MIN	120% (2,520VA)	120% (5,040VA)
POWER BOOST FOR 30 MIN	110% (2,310VA)	110% (4,620VA)
NO LOAD POWER CONSUMPTION	Normal Mode: $<$ 30W; Power Saving Mode: $<$ 8W; Standby Mode: $<$ 5W	
<b>AC INPUT</b>		
AC INPUT VOLTAGE AND FREQUENCY	60-140 VAC ; 50/60Hz	180-280 VAC ; 50/60Hz
PROGRAMMABLE AC INPUT CURRENT	5 - 30A (Default - 30A)	
AC INPUT BREAKER SIZE	30A (Has to be installed externally by the installer / user)	
<b>TRANSFER SWITCH</b>		
RELAY TYPE AND CAPACITY	SPDT, 40A	
TRANSFER TIME: INVERTER TO GRID/GENERATOR	$<$ 1 ms (Synchronized transfer at zero crossing)	
TRANSFER TIME: GRID/GENERATOR TO INVERTER	18ms (Synchronized transfer at zero crossing)	
<b>INTERNAL BATTERY CHARGER</b>		
MAX CONTINUOUS AC INPUT CURRENT AT MAXIMUM BULK CHARGING CURRENT	17.5A (At charging current = 30A, DC)	17.5A (At charging current = 60A, DC)
NOMINAL DC OUTPUT VOLTAGE	36 - 68 VDC (57.6V Nom)	
PROGRAMMABLE BULK CHARGING CURRENT	0 - 30A, DC	0 - 60 $\pm$ 5A, DC
BATTERY TEMPERATURE COMPENSATION	<ul style="list-style-type: none"> <li>Battery Temperature Sensor EVO-BCTS included</li> <li>Compensation Range from <math>-20^{\circ}</math> C to <math>60^{\circ}</math> C</li> </ul>	

MODEL NO.	EVO-4248SP	
	120 VAC SINGLE PHASE	120/240 VAC SPLIT PHASE
<b>EXTERNAL BATTERY CHARGER SECTION (SOLAR CHARGE CONTROLLER)</b>		
CHARGING VOLTAGE RANGE	52 - 60 VDC	
MAXIMUM CHARGING CURRENT	100A	
<b>COOLING</b>	2 Fans - Temperature Controlled, Variable Speed	
<b>PROTECTIONS/ALARMS</b>	Battery Low Voltage Alarm and Low / Over Voltage Shut Down; Shut Down under Input Over Current, Output Over Current, Output Overload and Output Short; Transformer and Heat Sink Overheat Shut Down; Immunity Against Conducted Electrical Transients in Vehicles	
<b>OPTIONAL REMOTE CONTROL MODEL NO.</b>	EVO-RC-PLUS	
<b>SPECIFICATIONS</b>	<ul style="list-style-type: none"> <li>For programming parameters and modes of operation</li> <li>4 Rows of 20 Character Alpha Numeric LCD Display for messaging</li> <li>SD Card Slot for Data Logging (16 or 32 GB)</li> <li>Comes with 10M / 33ft RJ-45 Data Cable</li> </ul>	
<b>COMPLIANCE SAFETY</b>	CSA listed: Conforms to CAN / CSA STD. C22.2 No. 107.1-16 and UL Std No. 1741 2nd Ed.	
EMI / EMC	Certified to FCC Part 15(B), Class A.	
<b>ENVIRONMENTAL</b>	OPERATING TEMPERATURE: $-20$ to $+60^{\circ}$ C ( $-4$ to $140^{\circ}$ F); STORAGE: $-40$ to $+70^{\circ}$ C ( $-40$ to $158^{\circ}$ F)	
<b>DIMENSIONS W X D X H</b>	324 x 415 x 212 mm / 12.8 x 16.3 x 8.35 in	
<b>WEIGHT</b>	29 Kg / 64 lb	

- (1) All AC power ratings in the Inverter Section are specified at Power Factor = 0.95
- (2) All specifications given above are at Ambient Temperature of  $25^{\circ}$ C /  $77^{\circ}$ F unless specified otherwise
- (3) Specifications are subject to change without notice
- (4) EVO-4248SP specs available separately