Samlexamerica [®]	UTIO		
	Inverter/ Charger	Models: EVO-4248SP	





Programmable Remote Control Model: EVO-RC-PLUS (Sold Separately)



	MODEL NO.	EVO-4248SP		
	INPUT CONFIGURATION	120 VAC SINGLE PHASE	120/240 VAC SPLIT PHASE	
INVERTER SPECIFICATIONS	OUTPUT WAVEFORM	Pure S	ine Wave	
	INPUT BATTERY VOLTAGE RANGE	36 - 68 VDC		
	NOMINAL AC OUTPUT VOLTAGE	120 / 240 VAC ± 5% Split Phase		
	OUTPUT FREQUENCY	60 Hz	60 Hz ± 0.1 Hz	
	TOTAL HARMONIC DISTORTION (THD)	< 5% (S	< 5% (See Note 4)	
	CONTINUOUS OUTPUT POWER AND POWER FACTOR (PF)	2100 Watt (PF 0.95)	4200 Watt (PF 0.95)	
	CONTINUOUS AC OUTPUT CURRENT	17.5A	17.5A	
	SURGE POWER FOR 1 MSEC	300% 6,300 VA	300% 12,600 VA	
	SURGE POWER FOR 100 MSEC	200% 4,200 VA	200% 8,400 VA	
	POWER BOOST FOR 30 SEC	150% 3,150 VA	150% 6,300 VA	
	POWER BOOST FOR 1 MIN	140% 2,940 VA	140% 5,880 VA	
	POWER BOOST FOR 10 MIN	120% 2,520 VA	120% 5,040 VA	
	POWER BOOST FOR 30 MIN	110% 2,310 VA	110% 4,620 VA	
	MAXIMUM CONTINUOUS DC INPUT CURRENT	137 ADC		
	MAXIMUM OUTPUT FAULT AC CURRENT AND DURATION	147.8A peak, 64.63A rms, Duration: 8.9ms		
	INVERTER EFFICIENCY (PEAK)	93%		
	NO LOAD POWER CONSUMPTION IN POWER SAVING MODE	< 8 W		
	NO LOAD POWER CONSUMPTION IN NORMAL MODE (120 VAC OUTPUT, TYPICAL)	< 30 watts		
	NO LOAD POWER CONSUMPTION IN STANDBY MODE	<	5 W	
AC INPUT	AC INPUT VOLTAGE	60 - 140 VAC	180 - 280 VAC	
	AC INPUT FREQUENCY	50	/60Hz	
	PROGRAMMABLE AC INPUT CURRENT	5 (Defa	- 30A ult - 30A)	
	AC INPUT BREAKER SIZE	30A (Has to be installed externally by the installer / user)		
	TRANSFER RELAY TYPE AND CAPACITY	SPE	SPDT, 40A	
TRANSFER CHARACTERISTICS	TRANSFER TIME – INVERTER TO GRID / GENERATOR	< 1 ms (Synchronized transfer at zero crossing)		
	TRANSFER TIME - GRID / GENERATOR TO INVERTER	18ms (Synchronized t	18ms (Synchronized transfer at zero crossing)	

Over 🕨



MODEL NO.

FLOAT STAGE

COOLING

MODEL NO.

SPECIFICATIONS

SAFETY COMPLIANCE

EMI / EMC COMPLIANCE

STORAGE TEMPERATURE

DIMENSIONS: W X D X H

OPERATING HUMIDITY

WEIGHTS

OPERATING TEMPERATURE

INPUT CONFIGURATION

MAX CONTINUOUS AC INPUT CURRENT AT

PROGRAMMABLE BUILK CHARGING CURRENT

PROGRAMMABLE CHARGING VOLTAGES:

PROGRAMMABLE CHARGING PROFILES

BATTERY TEMPERATURE COMPENSATION

EXTERNAL CHARGE CONTROLLER CONNECTION

MAXIMUM BULK CHARGING CURRENT

AC INPUT POWER FACTOR (PF)

BULK / ABSORPTION STAGE

CHARGING VOLTAGE RANGE

PROTECTIONS AND ALARMS

AC INPUT / OUTPUT CONNECTION

BATTERY CONNECTION

MAXIMUM CHARGING CURRENT

EQUALIZATION STAGE

CHARGER EFFICIENCY

NOMINAL DC OUTPUT VOLTAGE

Charger

↔ Pure Sine Wave

120 VAC SINGLE PHASE

17.5A

(At charging current = 30 ADC)

EVO-4248SP

> 0.95

36 - 68VDC (57.6V Nom)

0 - 60 ± 5A, DC

48.0 to 64.0V (Default 57.6V)

48.0 to 60.0V (Default 54.0V)

56.0 to 66.0V (Default 57.6V)

86% • 3 profiles under 3-Stage Charging: Bulk, Absorption, Float

• 1 profile under 4-Stage Charging: Bulk, Absorption, Equalize, Float

52 - 60 VDC

100A

2 Fans – Temperature Controlled, Variable Speed

Battery Low Voltage Alarm and Low / Over Voltage Shut Down

Shut Down under Input Over Current, Output Over Current,

• Immunity Against Conducted Electrical Transients in Vehicles

Stud and Nut: M8 (Pitch1.25mm)

Stud and Thumb Nut: M8 (Pitch 1.25mm)

EVO-RC-PLUS

• For programming parameters and modes of operation

• 4 Rows of 20 Character Alpha Numeric LCD Display for messaging

CSA listed: Conforms to CAN / CSA STD. C22.2 No. 107.1

and UL Std No. 1741 2nd Ed.

Certified to FCC Part 15(B), Class A

-20° C to 60° C (-4° F to 140° F)

-40° C to 70° C (-40° F to 158° F)

0 to 95% RH non condensing

324 x 415 x 212 mm ; 12.8 x 16.3 x 8.35 in

29 Kg / 64 lb

• Terminal hole size: Hole dia 6mm² / 16mm² for up to AWG#6

3 profiles under 2-Stage Charging: Bulk, Absorption
Battery Temperature Sensor EVO-BCTS included

Transformer and Heat Sink Overheat Shut Down

• Compensation Range from -20° C to 60° C

Output Overload and Output Short

Hard-wired through screw down terminals

SD Card Slot for Data Logging (16 or 32 GB)
Comes with 10M / 33ft RJ-45 Data Cable

120/240 VAC SPLIT PHASE

17.5A

(At charging current = 60 ADC)

NOTES:

INTERNAL BATTERY CHARGER

EXTERNAL BATTERY CHARGER SECTION (SOLAR CHARGE CONTROLLER)

COOLING, PROTECTIONS

INPUT AND OUTPUT

OPTIONAL REMOTE CONTROL

ENVIRONMENTAL SPECIFICATIONS

WEIGHTS AND DIMENSIONS

CONNECTIONS

COMPLIANCE

AND ALARMS

(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°C / 77°F (50°C / 122°F at 85% load and 60°C / 140°F at 72% load) unless specified otherwise.

(3) Specifications are subject to change without notice.

(4) Above the low battery warning voltage, the harmonic distortion meets UL requirements.

12027-EVO-4248SP-0722