samlexamerica |



Inverter/ | Models: Charger

→ Pure Sine Wave

EVO-4248SP





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

3 YEAR LIMITED WARRANTY

120	MODEL NO.	EVO-4248SP	
	INPUT CONFIGURATION	120 VAC SINGLE PHASE	120/240 VAC SPLIT PHASE
INVERTER SPECIFICATIONS	OUTPUT WAVEFORM	Pure Sine Wave	
	INPUT BATTERY VOLTAGE RANGE	36 - 68 VDC	
	NOMINAL AC OUTPUT VOLTAGE	$120 / 240 \text{ VAC} \pm 5\% \text{ Split Phase}$	
	OUTPUT FREQUENCY	60 Hz ± 0.1 Hz	
	TOTAL HARMONIC DISTORTION (THD)	< 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		/60Hz
	PROGRAMMABLE AC INPUT CURRENT	5 - 30A (Default - 30A)	
	AC INPUT BREAKER SIZE	30A (Has to be installed externally by the installer / user)	
TRANSFER CHARACTERISTICS	TRANSFER 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)	

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Inverter/ Models: EVO-4248SP Charger

→ Pure Sine Wave

	MODEL NO.	EVO-	4248SP
	INPUT CONFIGURATION	120 VAC SINGLE PHASE	120/240 VAC SPLIT PHASE
INTERNAL BATTERY CHARGER	MAX CONTINUOUS AC INPUT CURRENT AT MAXIMUM BULK CHARGING CURRENT	17.5A (At charging current = 30 ADC)	17.5A (At charging current = 60 ADC)
	AC INPUT POWER FACTOR (PF)	> 0.95	
	NOMINAL DC OUTPUT VOLTAGE	36 - 68VDC (57.6V Nom)	
	PROGRAMMABLE BULK CHARGING CURRENT	0 - 60 ± 5A, DC	
	PROGRAMMABLE CHARGING VOLTAGES: BULK / ABSORPTION STAGE FLOAT STAGE EQUALIZATION STAGE	48.0 to 64.0V (Default 57.6V) 48.0 to 60.0V (Default 54.0V) 56.0 to 66.0V (Default 57.6V)	
	CHARGER EFFICIENCY	86%	
	PROGRAMMABLE CHARGING PROFILES	 3 profiles under 3-Stage Charging: Bulk, Absorption, Float 1 profile under 4-Stage Charging: Bulk, Absorption, Equalize, Float 3 profiles under 2-Stage Charging: Bulk, Absorption 	
	BATTERY TEMPERATURE COMPENSATION	 Battery Temperature Sensor EVO-BCTS included Compensation Range from -20° C to 60° C 	
EXTERNAL BATTERY CHARGER SECTION	CHARGING VOLTAGE RANGE	52 - 60 VDC	
(SOLAR CHARGE CONTROLLER)	MAXIMUM CHARGING CURRENT	10	00A
	COOLING	2 Fans – Temperature Controlled, Variable Speed	
COOLING, PROTECTIONS AND ALARMS	PROTECTIONS AND ALARMS	 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 	
	BATTERY CONNECTION	Stud and Nut: M8 (Pitch1.25mm)	
INPUT AND OUTPUT	EXTERNAL CHARGE CONTROLLER CONNECTION	Stud and Thumb Nut: M8 (Pitch 1.25mm)	
CONNECTIONS	AC INPUT / OUTPUT CONNECTION	Hard-wired through screw down terminals • Terminal hole size: Hole dia 6mm² / 16mm² for up to AWG#6	
	MODEL NO.	EVO-R	C-PLUS
OPTIONAL REMOTE CONTROL	SPECIFICATIONS	 For programming parameters and modes of operation 4 Rows of 20 Character Alpha Numeric LCD Display for messagir SD Card Slot for Data Logging (16 or 32 GB) Comes with 10M / 33ft RJ-45 Data Cable 	
	SAFETY COMPLIANCE	CSA listed: Conforms to CA	N / CSA STD. C22.2 No. 107.1
COMPLIANCE		and UL Std No. 1741 2 nd Ed.	
	EMI / EMC COMPLIANCE	Certified to FCC	Part 15(B), Class A
	OPERATING TEMPERATURE	-20° C to 60° C	(-4° F to 140° F)
ENVIRONMENTAL SPECIFICATIONS	STORAGE TEMPERATURE	-40° C to 70° C (-40° F to 158° F)	
	OPERATING HUMIDITY	0 to 95% RH non condensing	
AVEIGUTE AND DIMENSIONS	DIMENSIONS: W X D X H	324 x 415 x 212 mm ; 12.8 x 16.3 x 8.35 in	
WEIGHTS AND DIMENSIONS	WEIGHTS	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°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