



Inverter/Charger

⚡ Pure Sine Wave

Models:

EVO-2212
EVO-3012
EVO-2224
EVO-4024

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

2 YEAR LIMITED WARRANTY



INVERTER	EVO-2212	EVO-3012	EVO-2224	EVO-4024
NOMINAL AC OUTPUT, FREQUENCY, THD	120 ± 5% VAC, 60 Hz ± 0.1, < 5% THD			
INPUT BATTERY VOLTAGE RANGE	9.1 - 17 VDC	9.1 - 17 VDC	18.1 - 34 VDC	18.1 - 34 VDC
CONTINUOUS POWER OUTPUT AT 25° C	2200 VA	3000 VA	2200 VA	4000 VA
CONTINUOUS AC OUTPUT CURRENT (A)	18A	25A	18A	33A
SURGE POWER FOR 1 MS	300% (6600VA, 54A)	300% (9000VA, 75A)	300% (6600VA, 54A)	300% (12000VA, 99A)
SURGE POWER FOR 100 MS	200% (4400VA, 36A)	200% (6000VA, 50A)	200% (4400VA, 36A)	200% (8000VA, 66A)
POWER BOOST FOR 5 SECONDS	150% (3300W)	150% (4500W)	150% (3300W)	150% (6000W)
POWER BOOST FOR 30 SECONDS	140% (3080W)	140% (4200W)	140% (3080W)	140% (5600W)
POWER BOOST FOR 5 MINUTES	120% (2640W)	120% (3600W)	120% (2640W)	120% (4800W)
POWER BOOST FOR 30 MINUTES	110% (2420W)	110% (3300W)	110% (2420W)	110% (4400W)
MAXIMUM CONTINUOUS DC INPUT CURRENT	266A	373A	133A	266A
INVERTER EFFICIENCY (PEAK)	90%	90%	93%	94%
NO LOAD POWER CONSUMPTION	Normal Mode: 30W; Power Saving Mode: <8W		Normal Mode: 25W; Power Saving Mode: <8W	
AC INPUT FROM GRID/GENERATOR	120 VAC Nominal (60 - 140 VAC ± 5% selectable) ; 60Hz / 50Hz (40 - 70 Hz selectable)			
PROGRAMMABLE AC INPUT CURRENT	5-40A (Default 30A)	5-70A (Default 30A)	5-40A (Default 30A)	5-70A (Default 30A)
TRANSFER RELAY	TRANSFER RELAY TYPE AND CAPACITY	SPDT, 40A	DPDT, 70A (2X35A contacts in parallel)	SPDT, 40A
		< 1 ms (Synchronized transfer at zero crossing)		DPDT, 70A (2X35A contacts in parallel)
	TRANSFER TIME: INVERTER TO GRID/GENERATOR	Up to 16 ms (Synchronized transfer at zero crossing)		
	TRANSFER TIME: GRID/GENERATOR TO INVERTER			
INTERNAL BATTERY CHARGER	AC INPUT VOLTAGE RANGE	120 VAC Nominal (60 - 140 VAC ± 5% selectable) ; 60Hz / 50Hz (40 - 70 Hz selectable)		
	MAXIMUM AC INPUT CURRENT	15A, AC	20A, AC	19A, AC
	PROGRAMMABLE CHARGING CURRENT AND VOLTAGE	0-100A ; 13-16 VDC	0-130A ; 13-16 VDC	0-70A ; 26-32 VDC
	POWER FACTOR	> 0.95		
	CHARGER EFFICIENCY	75%	75%	86%
	CHARGING STAGES & CONTROL	Normal Mode: 3 Stages – Bulk, Absorption and Float; Equalization Mode: 4 Stages – Bulk, Absorption, Equalization and Float; Adaptive Charging Control		
	BATTERY TEMPERATURE COMPENSATION	Battery Temperature Sensor included. Compensation Range from -20°C to 60°C		
BATTERY CHARGER EXTERNAL INPUT (SOLAR INPUT)				
	CHARGING INPUT VOLTAGE RANGE	13 - 16 VDC	13 - 16 VDC	26 - 32 VDC
	MAXIMUM CHARGING CURRENT	50A		
COOLING		2 Fans – Temperature Controlled, Variable Speed		
PROTECTIONS/ALARM		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		
COMPLIANCE	SAFETY/EMI/EMC/RoHS	ETL listed to UL Standards: 1741 & 458 (with Marine Supplement), and to CSA C22.2 No. 107.1-01. ; Compliant with RoHS2 Directive 2011/65/EU ; EMI/EMC compliant with FCC Part 15(B), Class A.		
ENVIRONMENTAL	TEMPERATURE	OPERATING: -20°C to 60°C (-4°F to 140°F); STORAGE: -40°C to 70°C (-40°F to 158°F)		
	OPERATING HUMIDITY	0 to 95% RH non condensing		
WEIGHT AND DIMENSIONS	W x D x H	325 x 426 x 207mm / 12.79 x 16.77 x 8.15 inches		
	WEIGHT	27 Kg / 59 lb	29 kg / 64 lb	26 Kg / 57 lb
				29 Kg / 64 lb

Note: (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 unless specified otherwise
(3) Specifications are subject to change without notice

12025-EVO-2212-3012-2224-4024-0818