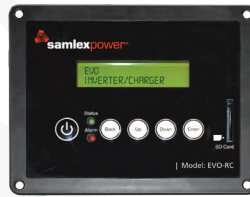




samlexamerica®

EVOLUTION™



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

Inverter/ Charger

⚡ Pure Sine Wave

Models:

EVO-2212

EVO-3012

EVO-2224

EVO-4024

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 | DPDT, 70A (2X35A contacts in parallel) |
| | TRANSFER TIME: INVERTER TO GRID/GENERATOR | < 1 ms (Synchronized transfer at zero crossing) | | | |
| | TRANSFER TIME: GRID/GENERATOR TO INVERTER | Up to 16 ms (Synchronized transfer at zero crossing) | | | |
| 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 | 30A, AC |
| | PROGRAMMABLE CHARGING CURRENT AND VOLTAGE | 0-100A ; 13-16 VDC | 0-130A ; 13-16 VDC | 0-70A ; 26-32 VDC | 0-110A ; 26-32 VDC |
| | POWER FACTOR | > 0.95 | | | |
| | CHARGER EFFICIENCY | 75% | 75% | 86% | 85% |
| 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 | 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

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