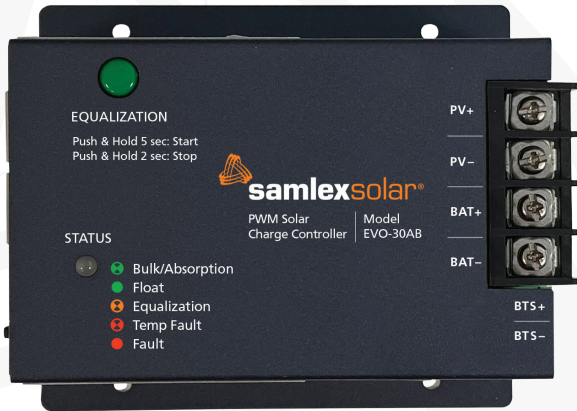




samlexsolar® 30A

Charge Controllers

Model
EVO-30AB
30 Amps



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

Design Features

- 30 Amp charging capacity
- 8 charge settings for different batteries
- Selectable battery equalization option
- Use with 12/24V batteries
- EVO-RC-PLUS Remote Display (Optional)
- Increased functionality when used with an EVO™ Series Inverter/Charger

5 YEAR LIMITED WARRANTY



| ITEM | PARAMETER | EVO-30AB |
|---|--|---|
| INPUT | MAXIMUM OPEN CIRCUIT VOLTAGE (Voc) OF SOLAR PANEL / ARRAY | 50V |
| | MAXIMUM SHORT CIRCUIT CURRENT (Isc) OF SOLAR PANEL / ARRAY | 30A |
| | TOTAL SELF CONSUMPTION CURRENT | 50mA |
| OUTPUT/ CHARGING | TYPE OF CONTROLLER | Series, Pulse Width Modulation (PWM) |
| | NOMINAL BATTERY SYSTEM VOLTAGE | 12V / 24V (Switch selectable) |
| | MIN. BATTERY VOLTAGE TO START MICRO-CONTROLLER, ACTIVATE PROTECTIONS AND GUIDE OPERATION | 9 VDC for 12V Battery 18 VDC for 24V Battery |
| | BATTERY TYPES | Lead Acid: Flooded/AGM/Gel Cell; Lithium |
| | CHARGING ALGORITHM | 4 Stage: Bulk, Absorption, Float, Equalization |
| | CHARGING PROGRAMS | 8 Programs (Switch selectable) |
| | ABSORPTION VOLTAGE (BASED ON SELECTED PROGRAM) | 14.0V to 14.8V |
| | FLOAT VOLTAGE (BASED ON SELECTED PROGRAM) | 13.4V / 13.5V |
| COMPENSACIÓN DE TEMPERATURA (CON SONDA OPCIONAL) | EQUALIZATION VOLTAGE (BASED ON SELECTED PROGRAM) | 14.2V to 15.3V - 1 to 3 hours - Manual or automatic after 28 days interval |
| | VOLTAGE REGULATION SET POINT ACCURACY | ± 50mV |
| | TEMPERATURE SENSE PROBE (MODEL 30AB-TS) | 33ft (10m) |
| REMOTE DISPLAY (OPTIONAL) | COMPENSATION OPERATION | -30mV / °C for 12V Battery -60mV / °C for 24V Battery |
| | ACTIVE TEMPERATURE RANGE | -20°C to 50°C |
| STATUS INDICATOR | EVO-RC-PLUS | 4 Lines x 20 Character, Alpha Numeric Backlit Display for operational parameters and fault messaging. |
| PROTECTIONS | LED | For charging status and fault indication. Single 3-color LED. |
| | OVER CURRENT | Shut down at input current > 40A |
| ENVIRONMENTAL | OVER TEMPERATURE OF HEAT SINK | Temperature > 90°C: Disconnect panel / array - Reconnect when cools down to 70°C |
| | OPERATING TEMPERATURE RANGE | -20°C to 50°C / -4°F to 112°F |
| | STORAGE TEMPERATURE RANGE | -55°C to 85°C / - 67°F to 185°F |
| MECHANICAL | HUMIDITY | 95%, Non-condensing |
| | DIMENSIONS (W X D X H) | 122 x 105.5 x 47.6 mm / 4.81 x 4.15 x 1.87 in |
| | WEIGHT | 0.4 kg / 0.8 lb |
| COMPLIANCE | ENCLOSURE / FACE PLATE | Powder coated steel. For indoor use only |
| | EMI / EMC | FCC Part 15(B), Class B |
| ACCESSORIES INCLUDED | INSULATED SPADE LUGS FOR INPUT / OUTPUT WIRING CONNECTIONS | 4 Pieces for #8 Stud for AWG #12-10 Wire 2 Pieces for #8 Stud for AWG #8 Wire |
| | SELF TAPPING SCREWS FOR FIXING INSTALL | 7 x 19, 5/8"; Type 25 Point; Flat Head; Phillips |

NOTE: Specifications are subject to change without notice

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