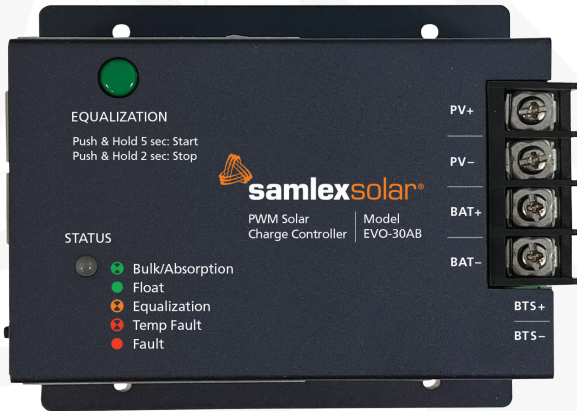




# samlexsolar® 30A

## 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
TEMPERATURE COMPENSATION (WITH OPTIONAL PROBE)	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
	EVO-RC-PLUS	4 Lines x 20 Character, Alpha Numeric Backlit Display for operational parameters and fault messaging.
STATUS INDICATOR	LED	For charging status and fault indication. Single 3-color LED.
PROTECTIONS	OVER CURRENT	Shut down at input current > 40A
	OVER TEMPERATURE OF HEAT SINK	Temperature > 90°C: Disconnect panel / array - Reconnect when cools down to 70°C
ENVIRONMENTAL	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	EMI / EMC	Powder coated steel. For indoor use only
ACCESSORIES	EMI / EMC	FCC Part 15(B), Class B
	COMMUNICATION CABLE	RJ45, 1.45 m / 5 feet (included and for connection to EVO™ Inverter/Charger)

NOTE: Specifications are subject to change without notice

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