



**samlexsolar**<sup>®</sup>  
A Division of Samlex America Inc.

# 50W



**Charge  
Controllers**  
Samlex Series

Model  
SCC-30AB  
30 Amps

### Design Features

- Pulse Width Modulated (PWM) charging – most efficient and effective way to charge batteries
- Use with 12V or 24V Lead-Acid Flooded / AGM / Gel Cell and NiCad batteries
- 4-stage battery charging: Bulk, Absorption, Float and manual / automatic Equalization
- 8 selectable battery charging profiles for easy setup
- Temperature compensated charging with optional Temperature Sensor
- Digital LCD Monitor for informative display of operational parameters and fault messages
- Flush mount installation – ideal for RVs and motor homes

### Applications

- Recreational / Service Vehicles
- Boats and marine crafts
- Field work / mobile offices
- Telecommunications

## 5 YEAR WARRANTY

ITEM	PARAMETER	SCC-30AB SPECIFICATIONS
INPUT	MAXIMUM OPEN CIRCUIT VOLTAGE (Voc) OF SOLAR PANEL / ARRAY	50V
	MAXIMUM SHORT CIRCUIT CURRENT (Isc) OF SOLAR PANEL /ARRAY	30A
	MAXIMUM SELF CONSUMPTION OF THE CONTROLLER	50mA
OUTPUT/ CHARGING	TYPE OF CONTROLLER	Series, Pulse Width Modulation (PWM)
	BATTERY SYSTEM VOLTAGE	12V / 24V (Switch selectable)
	BATTERY TYPES	Lead Acid: Flooded/AGM/Gel Cell; Ni-Cd
	CHARGING ALGORITHM	4 Stage: Absorption, Float, Equalization
	CHARGING PROGRAMS	8 Programs (Switch selectable)
	ABSORPTION VOLTAGE (BASED ON SELECTED PROGRAM)	14.0V to 16.0V for maximum 1 hour
	FLOAT VOLTAGE (BASED ON SELECTED PROGRAM)	13.4V / 14.5V
	EQUALIZATION VOLTAGE (BASED ON SELECTED PROGRAM)	14.2V to 15.3V: - 1 to 3 hours - Manual or automatic after 28 / 14 days interval
	TEMPERATURE COMPENSATION	With optional Temperature Sensor Model No.: DC-BTS-A-C: - 30mV / °C for 12V Battery - 60mV / °C for 24V Battery - Compensation range: 0°C to 50°C
DISPLAY	LCD DISPLAY	Alpha Numeric Display for operational parameters and fault messaging - 7 selectable screens .
	LED DISPLAY	For charging status and fault indication. Single 3-color LED.
PROTECTIONS	OVER CURRENT	Shut down at input current > 45A
	OVER TEMPERATURE OF HEAT SINK (FACE PLATE)	Temperature > 90°C: Disconnect panel / array - Reconnect when cools down to 70°C
ENVIRONMENTAL	OPERATING TEMPERATURE RANGE	0°C to +45°C / 32°F to 113 °F
	STORAGE TEMPERATURE RANGE	-55 °C to +85 °C / - 67 °F to 185 °F
	HUMIDITY	95%, Non-condensing
MECHANICAL	DIMENSIONS (W X D X H)	190 x 108 x 34 mm / 7.5 x 4.25 x 1.35 in
	WEIGHT	0.4 kg / 0.8 lb
	ENCLOSURE / FACE PLATE	Powder coated steel. For indoor use only

NOTE: Specifications are subject to change without notice

12010-SCC-30AB-0814