



**samlexsolar®**  
A Division of Samlex America Inc.

**8A**



**Solar Charge Controller**

Model  
**SCC-1208L**  
12 Volts  
8 Amps

**Design Features**

- Rated IP65, sealed, splash proof weather resistant design
- Automatically turns ON lights when dark and turns OFF during the day
- Wide operating temperature range of -40°C to +60°C

**5 YEAR LIMITED WARRANTY**

**FC CE IP65**

		MODEL NO.	SCC-1208L
SPECIFICATIONS OF SOLAR PANEL	NOMINAL VOLTAGE	12V	
	MAXIMUM OPEN CIRCUIT VOLTAGE, $V_{oc}$	26V	
	RATED SHORT CIRCUIT CURRENT, $I_{sc}$	8A	
	MAX. SHORT CIRCUIT CURRENT (5 MINUTES)	10A	
BATTERY CHARGING	TYPE OF CONTROLLER	Series Type PWM ; Controller PWM ; Frequency: 30 Hz	
	BULK CHARGE CURRENT	Equal to the Short Circuit Current $I_{sc}$ of the Solar Panel	
	ABSORPTION VOLTAGE - SEALED BATTERY	14.5V $\pm$ 0.2V	
	ABSORPTION VOLTAGE - FLOODED / WET CELL BATTERY	14.8 V $\pm$ 0.2V	
LOAD	FLOAT VOLTAGE	13.8V $\pm$ 0.2V	
	RATED LOAD CURRENT	8A	
	MAX. LOAD CURRENT (5 MINUTES)	10A	
	PV VOLTAGE TO TURN ON THE NIGHT LIGHT MODE LOAD	$\leq$ 3V for 10 min.	
OTHER OPERATING PARAMETERS	PV VOLTAGE TO TURN OFF THE NIGHT LIGHT MODE LOAD	$\geq$ 4V for 10 min.	
	MINIMUM BATTERY VOLTAGE FOR OPERATION	3V	
	MINIMUM VOLTAGE OF BATTERY TO START CHARGING	7V	
	NO LOAD CURRENT DRAW	9 mA	
PROTECTIONS	VOLTAGE DROP ACROSS BATTERY TERMINALS TO LOAD TERMINALS	0.35V at 8A	
	VOLTAGE DROP ACROSS SOLAR PANE INPUT TERMINALS TO BATTERY TERMINALS	0.5V at 8A	
	OVER TEMPERATURE PROTECTION	Shuts down when internal heat sink temperature is 95°C $\pm$ 10°C Auto-resets when heat sink cools down to 75°C $\pm$ 10°C	
	OVER VOLTAGE PROTECTION FOR BATTERY	16V. Auto reset	
ENVIRONMENTAL & SAFETY	DEEP DISCHARGE PROTECTION	Disconnect load if battery voltage drops to $\leq$ 11.5V $\pm$ 0.2V for 5 min / Immediately if $\leq$ 9 V; Reconnect load after battery voltage rises to $\geq$ 12.4 V $\pm$ 0.2V for 5 min	
	OVER CURRENT (ON LOAD TERMINALS)	Shuts down at $\geq$ 12A. Auto reset after 1 min. Shuts down again if $\geq$ 12A. Will now latch in shut down condition and requires manual reset by first disconnecting the panel and then the battery. To reconnect, first connect the battery and then the panel.	
	BATTERY TERMINAL REVERSE POLARITY PROTECTION	Yes. Auto reset	
DIMENSIONS AND WEIGHT	AMBIENT TEMPERATURE RANGE	- 40 to + 60° C	
	INGRESS PROTECTION / RELATIVE HUMIDITY	IP65 / 100%	
	EMC COMPLIANCE	FCC Part 15(B), Class B; CE, EN61000-3-1, 61000-6-3	
	DIMENSIONS (L X W X H)	97 x 46 x 26 mm / 3.8 x 1.8 x 1.0 in	
	WEIGHT	0.125 kg / 0.276 lbs.	

NOTE: Specifications are subject to change without notice

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