



samlexpower®

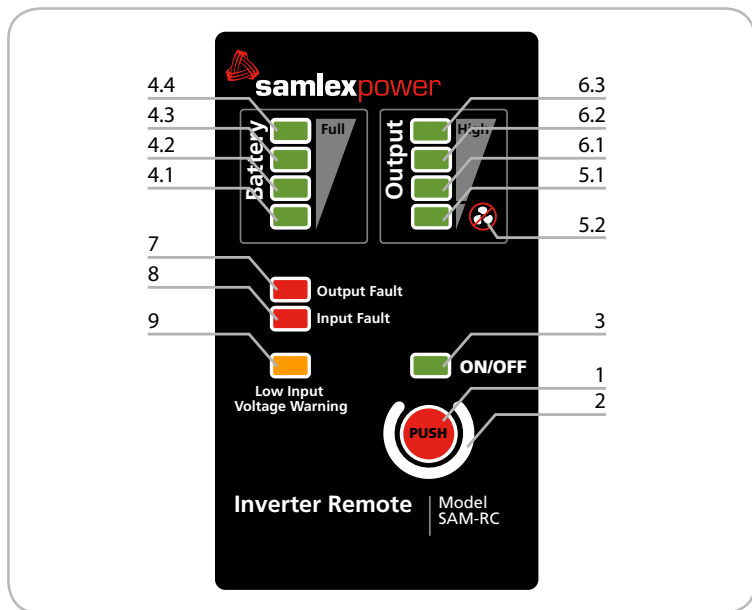
**Remote
Control**

Model:
SAM-RC

**Owner's
Manual**

Please read this
manual **BEFORE**
operating
your Remote
Control.

Layout and Operation of Controls and LED Indications



1. On / Off Push Button. Used to switch on and switch off the Inverter.



NOTE: For switching on and switching off the Inverter using this Remote Control, the Main On / Off Switch on the Inverter should be in the Off position.

If the On / Off Switch on the Inverter is left in On position, the Inverter cannot be switched off using this Remote Control. The Remote Control will, however, continue to display the status of operation.

2. Annular ring with White LED backlighting around the On / Off Push Button for assistance in identifying the location of the On / Off Push Button in dark conditions.

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GENERAL INFORMATION



NOTE: The White LED backlighting will be on even when the Main On / Off Button on the Inverter is in the Off condition (Provided DC input voltage from the battery is available at the DC input terminals of the Inverter).

3. Green LED showing On / Off status of the Remote Control. Remote is ON when the LED is lighted.
- 4.1 - 4.4 Bar Graph consisting of 4 Green LEDs showing the battery voltage seen at the DC input terminals of the Inverter as follows: (Voltages shown are for a 12 V Nominal Battery input)
- LED 4.1 is lighted Battery voltage is 11.1 to 11.6 VDC
 - LED 4.1 and 4.2 are lighted: Battery voltage is 11.6 to 12.8 VDC
 - LED 4.1, 4.2 and 4.3 are lighted: Battery voltage is 12.8 to 13.2 VDC
 - LED 4.1, 4.2, 4.3 and 4.4 are lighted: Battery voltage is 13.2 to 15.3 VDC



NOTE: The battery voltage seen at the DC input terminals of the Inverter will be lower than the battery voltage at the battery terminal posts by the amount of voltage drop along the length of the wires connecting the battery and the Inverter. It is recommended that the voltage drop may be limited to 2% of the battery voltage by ensuring that the thickness of the connecting wires is selected appropriately based on the maximum current drawn by the Inverter from the battery and the distance between the battery and the Inverter.

- 5.1 - 5.2 Green LED (5.1) showing operation of the load controlled cooling fan.
- Lighted LED (5.1) indicates that the power drawn by the load is less than 10% of the rated power output of the Inverter and that the load controlled fan of the Inverter is switched off to save power (The crossed out fan symbol (5.2) indicates that the fan is off).
 - Extinguished LED (5.1) indicates the load is more than 10% of the rated output power of the Inverter and that the cooling fan inside the Inverter is on.
- 6.1 - 6.3 Bar graph consisting of 3 Green LED showing percentage of the rated output power of the inverter being delivered to the load as follows:
- LED 6.1 is lighted: Power drawn by the load is 10% to 59% of the rated output power of the Inverter.

GENERAL INFORMATION

- LED 6.1 and 6.2 are lighted: Power drawn by the load is 60% to 79% the rated output power of the Inverter
- LED 6.1, 6.2 and 6.3 are lighted: Power drawn by the load is 80% to 100% of the rated output power of the Inverter



NOTE: When the Green LED 5.1 is lighted, it indicates that the power drawn by the load is less than 10% of the rated output power of the Inverter. As the load increases from 10% to 100% of the rated capacity of the Inverter, LED 5.1 extinguishes and LEDs 6.1 to 6.3 light up in succession. In a normal Bar Graph, LED 5.1 would have continued to be lighted for loads > 10%. However, as the lighted condition of LED 5.1 is also used to display the Off status of the load controlled cooling fan inside the Inverter, it is extinguished when the load exceeds 10% of the rated output power of the Inverter indicating that the cooling fan is switched On.

7. Red LED showing "Output Fault" due to one of the following reasons:
 - Overload / short circuit on the output side
8. Red LED showing "Input Fault" due to one of the following reasons:
 - Shut down due to input voltage from the battery seen at the DC input terminals of the Inverter is 10.5 or below
 - Shut down due to input voltage from the battery seen at the DC input terminals of the Inverter is 15.2 V or higher
 - Shut down due to over temperature
9. Amber LED marked "Low input Voltage Warning" indicating the following:
 - Warning that the input voltage from the battery seen at the DC input terminals of the Inverter is getting low i.e. below 11.6 VDC. The Inverter will shut down when the voltage drops down to 10.5 VDC
10. (Not shown. Located at the back of the Remote). 8P8C (8 Position, 8 Conductor) Modular Connector Receptacle (also known as RJ-45 Receptacle) used for connecting the Remote Control to the Inverter.



NOTE: 3 meters length of Cat 5, Networking Cable with 8P8C (8 Position, 8 Conductor) Modular Plugs (RJ-45) on the two ends is provided for connecting the Remote Control to the Inverter.

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OPERATION

The Remote Control is provided with 3 meter length of Cat 5 Networking Cable with 8P8C (8 Position, 8 Conductor) Modular Plugs (RJ-45) on either ends . Plug one end of the cable to the receptacle on the Remote Control.

Locate the 8P8C (8 Position, 8 Conductor) Modular Receptacle (RJ-45) on the inverter and securely insert the other end of the plug on the Remote Control cable.

For switching on and switching off the Inverter using this Remote Control, the Main On / Off Switch on the Inverter should be in the Off condition.



CAUTION! If the On / Off Switch on the Inverter is left in On position, the Inverter cannot be switched off using this Remote Control. The Remote Control will, however, continue to display the status of operation.

Please see under “**Layout and Operation of Controls and LED Indications**” for display information.

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SPECIFICATIONS

MODEL NO.	SAM-RC
APPLICABLE MODELS OF INVERTERS	SAM-1000-12, SAM-1500-12, SAM-2000-12, SAM-3000-12
RECEPTACLE FOR CONNECTING CABLE	8P8C (8 Position, 8 Conductor) Modular Receptacle (RJ-45)
CONNECTING CABLE TYPE	8 Conductor, Cat 5 Networking Cable
CONNECTING CABLE, LENGTH	3 meters
CONNECTING CABLE, CONNECTORS	8P8C (8 Position, 8 Conductor) Modular Plugs (RJ-45) on both ends
DIMENSIONS (WITHOUT CABLE),MM (L x W x H)	115 x 70 x 27
DIMENSIONS (WITHOUT CABLE), IN (L x W x H)	4.6 x 2.8 x 1.1
WEIGHT (WITHOUT CABLE), KG	0.056
WEIGHT (WITHOUT CABLE), LB	0.12

NOTE: Specifications are subject to change without notice

PRODUCT NAME XXX manufactured by Samlex America, Inc. (the “Warrantor”) is warranted to be