SDM Series Solar light User Manual

1.Introduction

SDM series solar light is a kind of MP3/FM Radio/Bluetooth of portable solar power system design for home and outdoor lighting and other activities .The solar energy will be turned into DC current power stored in the battery by solar panel and solar charge controller.And the solar controller output DC current used for home small power DC electric equipment directly .Such as Lighitng mobile phone,digital cameras,DC fan etc

It suitable for power supply,communication base Station Road monitoring,tunnel,grassland pasture,forest fire prevention,environmental monitoring,fisherman,border posts,etc,and outdoor camping, yurts, tents and other outdoor and indoor lighting, drivers drive.It is an essential for night lighting.

2.Product feature

• Reasonable configuration,sunny areas can achieve annual electricity continuously.
• Humanized design ,portable and simple operation .It have 3.2VDC to 12VDC output port and 5VDC USB output .Convenience for various kinds of small electric appliances used .
• Novel appearance .It have 15 meter remote control ,you can play your favorite song .You can receive information of anywhere any time .
• The product built-in rechargeable maintenance-free lead-acid batteries or the lithium batteries.It can use sunlight for charging, also can choose the AC adapter, when no sunlight can be used to charging.It have overcharge,discharge,over current,prevent the reverse charging protection at night function.

3.Instruction

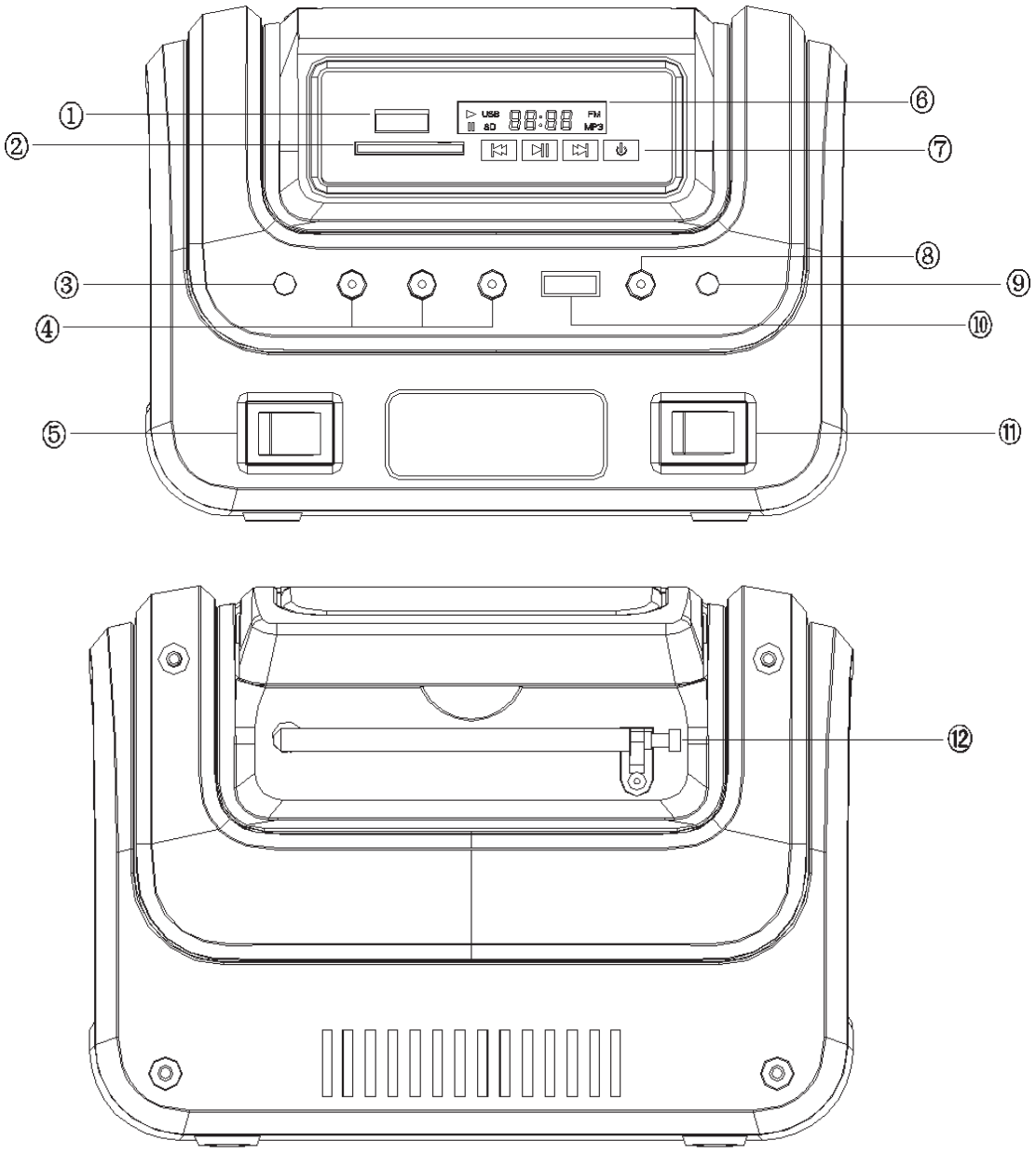
• Please full charge battery first using. (When the power switch turn ON ,the battery indicator is flashing on red . After full charge ,the battery indicator will continue lighting on green .)
• Through the standard USB cable can be directly connected to the 5v output charge for mobile phone, game consoles, digital cameras, MP4 and other small capacity equipment.
• The port of standard LED bulb cable connect the any one 5.5VDC socket ,and open the switch of the LED bulb cable ,LED bulb lighting .
• The LED set on ,LED lighting.
• Turn on long press the power button **M** Bluetooth by default.Search Bluetooth devices, connect signals, you can use; FM/MP3 switch on long press the power button **M** ,The digital display show Radio station ;If you insert MR3/SD card will be play them automatic .The digital display will show the time of the song .Press ⏭、⏮ to choose your favorite song , long press ⏭、⏮ to adjust volume .Press ⏻ to change FM radio

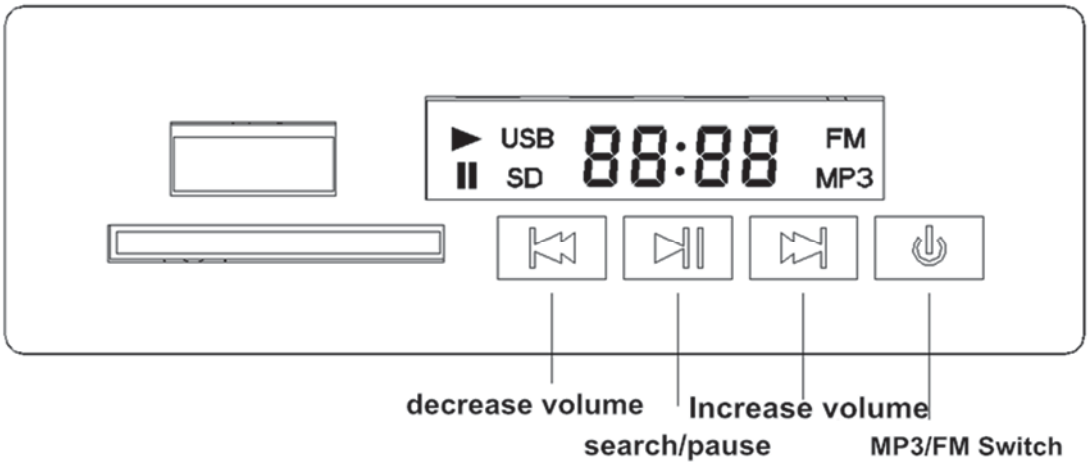
Press and hold the play key for 3 seconds to start ,and press button ⏯ to search radio stations ,press button ⏯ to stop searching radio station ; Press ⏭、⏮ to choose favorite radio station after search radio stations .Long press ⏭、⏮ to adjust volume .Long press power switch **M** to turn off MP3/FM playing .

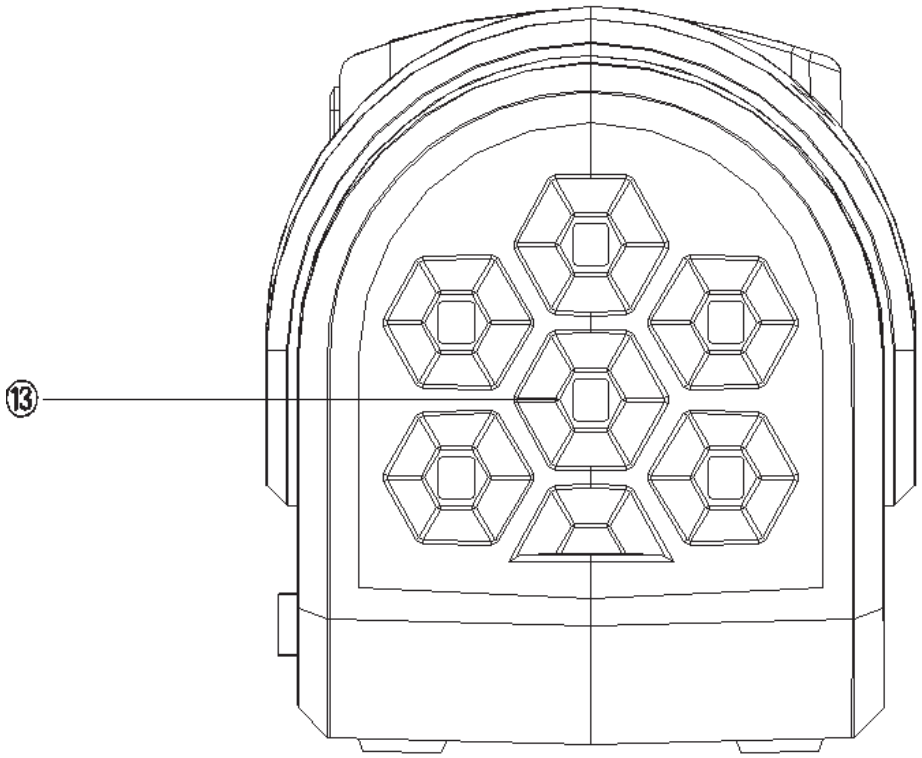
4.Operation

• If use solar panel charging, first insert the solar panel into the DC charger,put solar panels on sunny places, pay attention that there is nothing cover solar panels.
• Using AC charging, put the adapter DC into solar light DC charger， then connect the charger with 110VAC/220 VAC.
• If additional AC adapter,the power wire connect the machine and insert into mains.

SDM-0603 Appearance:

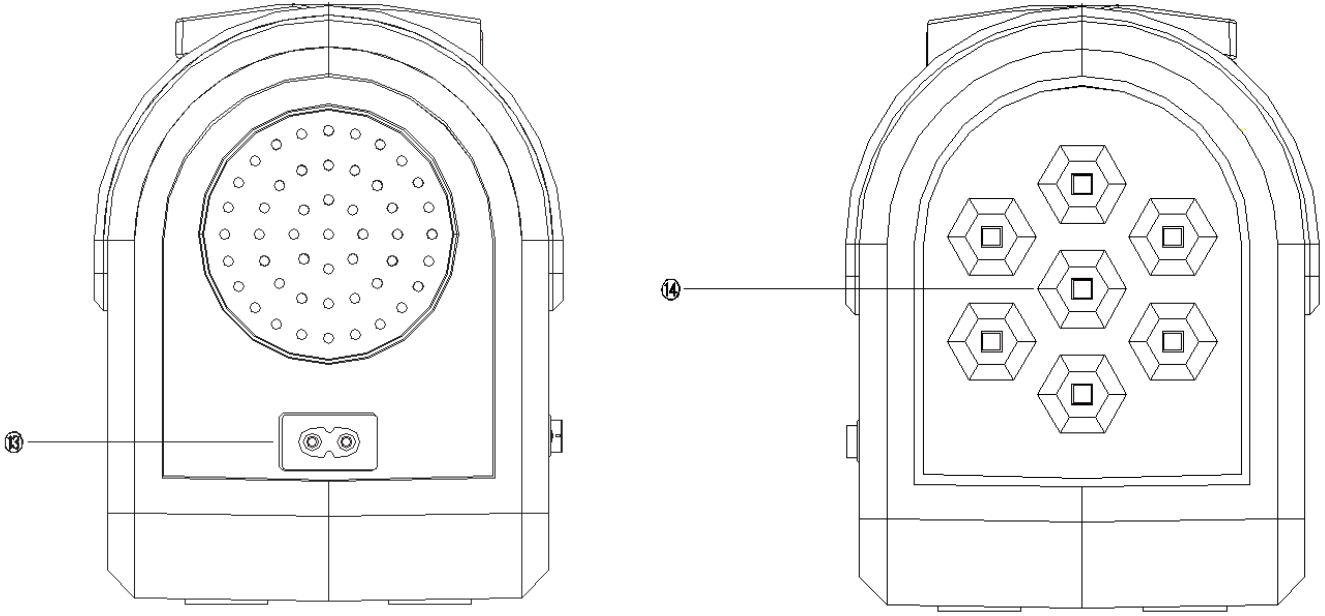


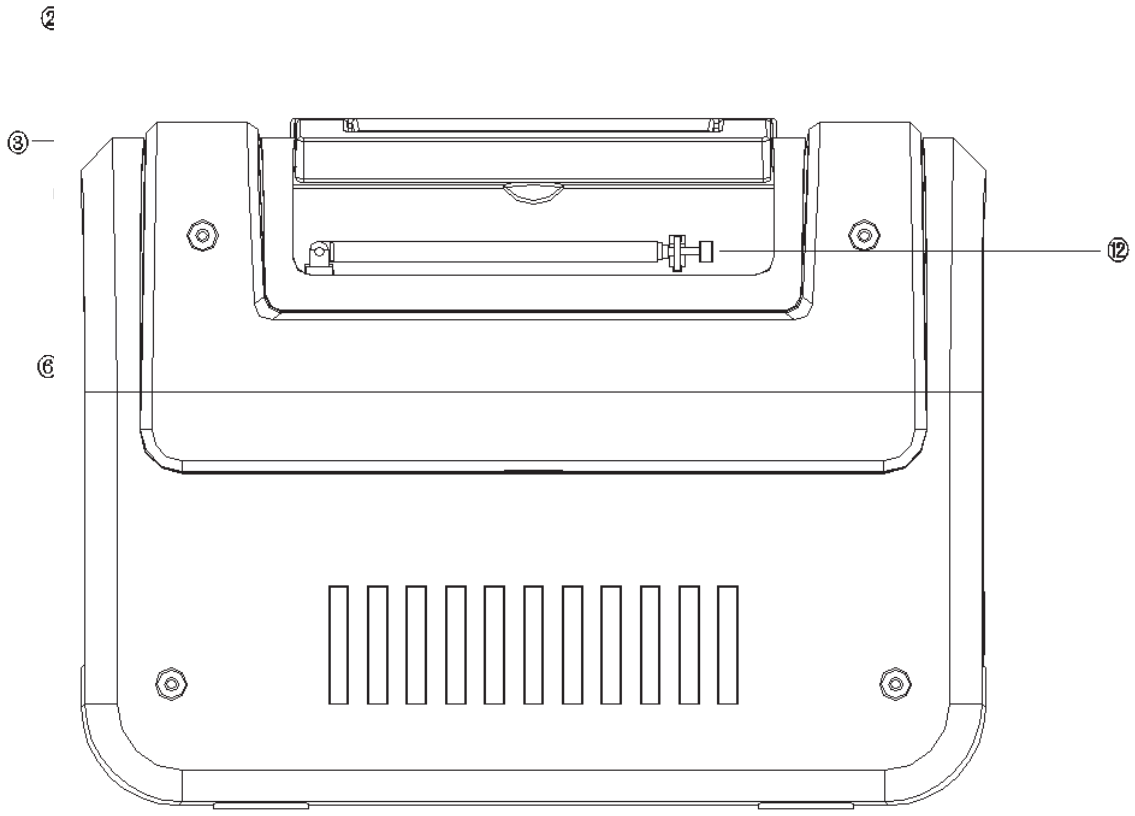




①MP3 player input ②SD card player input ③Working indicator ④3.2V/6VDC/12VDC output ⑤Power switch ⑥LED display screen ⑦MP3/FM/Bluetooth control button ⑧Charging input of solar panel and AC charger ⑨Charging indicator ⑩USB output 5VDC □LED switch □Antenna □LED lighting lamp

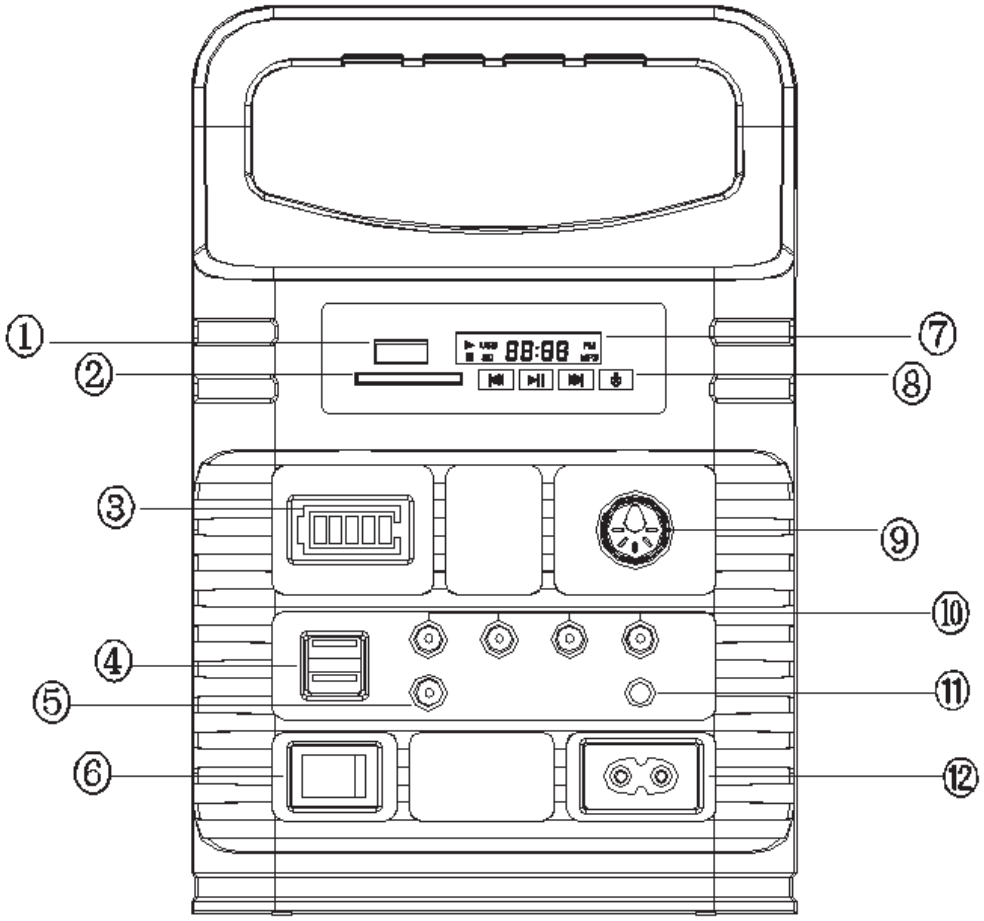
SDM-1207 Appearance:

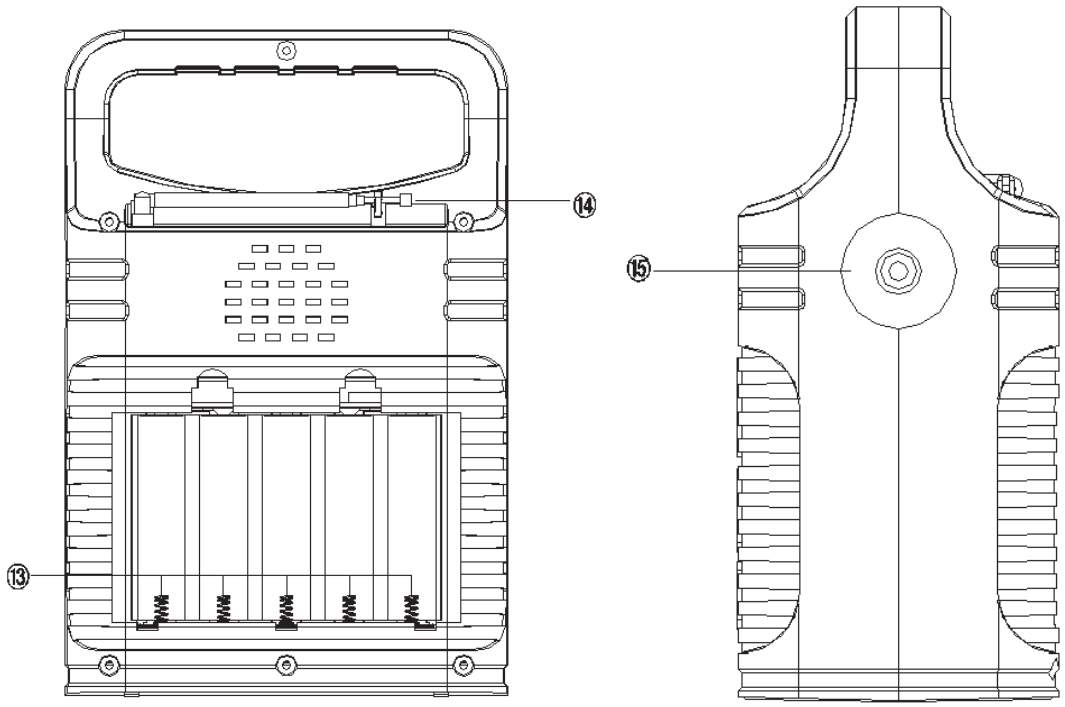




①MP3 player input ②SD card player input ③12V output ④Charging input of solar panel and AC charger ⑤Working indicator ⑥power switch ⑦LED display screen ⑧MP3/FM/Bluetooth control button ⑨USB output 5VDC ⑩Charging indicator □LED switch □Antenna □220VAC input □LED lighting lamp

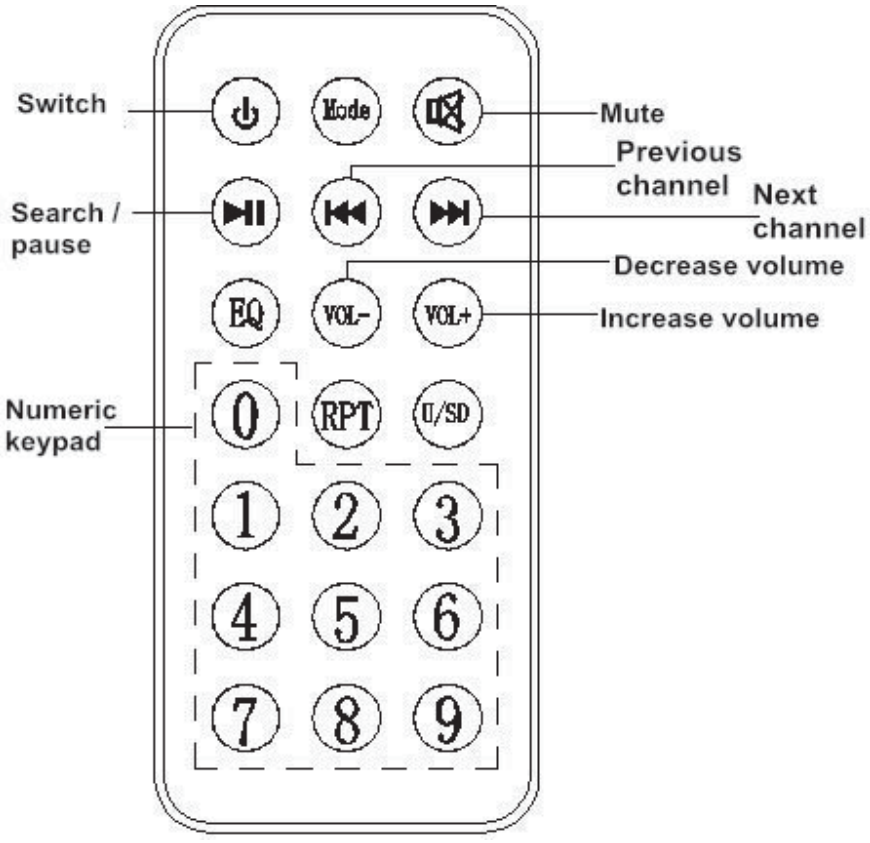
SDM-3790 Appearance:





①MP3 player input ②SD card player input ③Battery capacity display ④USB output 5VDC ⑤Charging input of solar panel and AC charger ⑥power switch ⑦LED display screen ⑧MP3/FM/Bluetooth control button ⑨LED switch ⑩3.7VDC output □Charging indicator□220VAC input □Install lithium battery 3.7VDC □Antenna □LED lighting lamp

Remote control chart:



5.Attention

• Please read the instruction before use.
• Long time no use , please turn off the power.
• Charging more than 10 hours every 1 months.
• Don’t use other adapter and solar panel charger this product.
• Don’t disassemble solar panel and battery.
• Light stay away from water, combustible gas and corrosive.
• The temperature keep between 0℃-40℃.

6.Fault

• When the charging indicator is not bright ,please check the solar panel whether connect correctly.The machine power switch on . The solar panel whether placed in the sunshine.
• It can’t work for load or the load indicator is not bright,please check battery whether low voltage and the voltmeter whether display less than 10V.Before used,you can continuous charging the battery 10hours.
• If the load shows is opened,without load output,please check the load connection whether damage or not,then connected again.Check whether the overload,short circuit,then disconnect the load for a minute later and connected again.

7.Technical data

Solar DC generator system			
Model	SDM-0603	SDM-1207	SDM-3790
Battery capacity	5AH/10AH 3.2V	7AH/12AH 12VDC	7.5AH 3.7VDC
Solar panel	5W/6VDC	10W/20W 18VDC	10W/6VDC
Open-circuit voltage	5.5～6.5VVDC	17～22VDC	5.5～6.5VDC
Charging current	0.8A	0.55A/1.1A	1.6A
AC Input voltage	100-240VAC		
Adapter	5VDC 1A	15VDC 0.8～1A	5VDC 0.8～1A
DC output voltage	12VDC		3.7VDC
USB output	5VDC/1.5A		
Charging protection	3.6±0.1VDC	14.5±0.5VDC	4.2±0.1VDC
Low voltage disconnect point	2.5±0.2VDC	10.5±0.5VDC	2.8±0.2VDC
No load loss	≤8mA		
Working temperature	-10℃∽50℃		
Moisture requirement	≤90% non-condensing		

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception,
which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different
from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.
The device has been evaluated to meet general RF exposure requirement. The device can be u sed in portable exposure condition without restriction