

# Solar Music Light

FS043

Brand name: Shenzhen JCN New Energy Technology Co., Ltd

Results based on test procedures detailed in IEC TS 62257-9-5:2018 and IEC TS 62257-9-8:2020

Verify online:

<https://data.verasol.org/products/sek/jcn-fs043>

Valid until: July 31, 2027



Meets the Requirements in IEC TS 62257-9-8:2020 for Size A kits

Mobile charging

4

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system

## PERFORMANCE DETAILS

				Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)	
VeraSol Certified?	Included in kit?	Appliance <sup>a</sup>	Description	Used alone <sup>b</sup>	Used in combination <sup>c</sup>
yes	included	Main lighting unit	4 light points on "on" totaling 830 lumens and 5 W power	5.2 hours	4.5 hours
yes	included	Radio	Radio integrated into main unit with a power consumption of 0.43 W while in use	67 hours	3.5 hours
no	not included	Mobile phone	Basic phone (3.7 Wh battery)	5.3 full charge(s)	1.2 full charge(s)

Available daily electrical energy [Wh/day]	28
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Performance measure	Brightness setting: on
Lighting full battery run time for main unit [hours]	5.2
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	4320

<sup>a</sup> Only included appliances were tested. Run times and power ratings for appliances sold separately come from manufacturer ratings or standard estimates.

<sup>b</sup> Without any other loads used during the run time

<sup>c</sup> Based on an example use profile with all of the appliances listed in the "Used in combination" column used simultaneously.

<sup>d</sup> Lighting full battery run time estimates do not account for mobile phone charging or other auxiliary loads; the run time is defined as the time until the output is 70% of the initial, stabilized output.



LIGHTING DETAILS									
Lamp name	Number of lamps	Number of settings	Setting name	Light output [lm]	Power Consumption [W]	Lumen efficacy <sup>e</sup> [lm/W]	CRI <sup>f</sup>	CCT <sup>g</sup>	Lumen maintenance <sup>h</sup>
1.5 W LED	3	1	on	270	1.5	177	66	6400	100
Integrated light	1	1	on	23	0.43	52	73	5900	100

<sup>e</sup> Lumen efficacy is the power consumption at a light point during the light output test.

<sup>f</sup> Color Rendering Index. An index of 100 is equivalent to viewing objects in daylight; above 80 is considered good.

<sup>g</sup> Correlated Color Temperature in Kelvin. Describes color appearance as warm (2700-3000 K), cool (3000-5000 K), or daylight (>5000 K).

<sup>h</sup> Percent of the original light output that remains after 2,000 hours of run time.

PORTS		
1	USB 2.0 type A	 Mobile phones and radios can be charged. Adapters are included.
3	Barrel jack	 12 V ports available to power light points.
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Drop test, Strain relief test, Physical ingress protection, PV durability tests
Level of water protection	Main Unit	Has protection from occasional rain; met with appropriate warning label
	PV module	Has protection from permanent outdoor exposure
SOLAR DETAILS		
PV Module Type		Monocrystalline silicon
PV Maximum Power		10 W
PV Rated Power		10 W
PV Open-Circuit Voltage ( $V_{oc}$ )		11.23 V
MAIN UNIT BATTERY DETAILS		
Battery Replaceability		Not easily replaceable with common tools.
Battery Chemistry		Lithium iron phosphate
Battery Package Type		26700
Battery Capacity (tested)		4.3 Ah
Battery Capacity (rated)		4 Ah
Battery Nominal Voltage		6.4 V
Battery status / other indicator lights		One indicator for charging, one for error, one for radio, and four for battery level
PRODUCT DETAILS		
Company Name (full)		Shenzhen JCN New Energy Technology Co., Ltd
Company Name ("brand")		Shenzhen JCN New Energy Technology Co., Ltd
Product Name		Solar Music Light
Product Model or ID Number		FS043
Company Contact Information		amdy@jcn solar.com
Company Website		<a href="http://www.jcn solar.com/">http://www.jcn solar.com/</a>
Mass		1860 g
SSS INFORMATION		
Expiration Date		July 31, 2027
Revision		2025.07