

# RAYGO 150

RAYGO 150  
Plug The Sun Limited

Results based on test procedures detailed in  
IEC 62257-9-5 v.4

Verify online:

[www.lightingglobal.org/products/pls-rg150](http://www.lightingglobal.org/products/pls-rg150)

Valid until: March 31, 2022



Meets the Lighting Global Solar Home System Kit Quality Standards



Mobile charging

PAYG

Pay-As-You-Go option available

4

Light point(s)



Plug-and-play



## WARRANTY INFORMATION

A 2-year warranty covering manufacturing defects in the system.

## PERFORMANCE DETAILS

	Appliance <sup>a</sup>	Description	Run time after a typical day of solar charging (assuming 5kWh/m <sup>2</sup> /day)		Featured Combination (Main lighting and phone charging)
			Used alone <sup>b</sup>	Used in combination <sup>c</sup>	
included in kit	Main lighting unit	4 light points on high totaling 930 lumens and 8.3 W power	18 hours	6.1 hours	16 hours
sold separately	Mobile phone	Smart phone (5.7 Wh battery)	21 full charge(s)	1.5 full charge(s)	2 full charge(s)
	Mobile phone	Basic phone (3.7 Wh battery)	30 full charge(s)	--	3 full charge(s)
	Television	TV (unspecified size, 18 W power consumption)	10 hours	3.1 hours	--
	Radio	Portable radio (3.7 Wh battery) with power consumption of 0.5 W	230 hours	4.6 hours	--
	Torch	Torch (2 Wh battery) with power consumption of 0.3 W	390 hours	--	--
	Fan	Fan (16" or smaller, 10 W power)	18 hours	7.6 hours	--

Available daily electrical energy<sup>c</sup> (Wh/day) 180

Performance measure	Brightness setting: Four lights on high
Lighting full battery run time <sup>d</sup> for main unit (hours)	18
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	16700

<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	Light output (lm)	Lumen efficacy <sup>e</sup> (lm/W)	CRI <sup>f</sup>	CCT <sup>g</sup>	Distribution type	Lumen maintenance <sup>h</sup>
RAYLITE 100	1	2	High	120	110	85	6800	Wide	100%
RAYLITE 200	2	2	High	230	110	85	6700	Wide	100%
RAYLITE 300	1	3	High	350	100	85	6600	Wide	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 degrees 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

SPECIAL FEATURES		
PAYG	★ Pay-As-You-Go enabled	
Additional ingress protection	★ PV module meets IP65 and light points meet IP44	
PORTS		
2	USB 2.0 type A  Mobile phones and radios can be charged. Adapters are included.	
5	Barrel jack  12 V ports available to charge devices and power appliances; 4 of these ports are used for light points only	
DURABILITY		
Overall durability and workmanship	Pass	
Durability tests passed	Switch test, Strain relief test, Physical ingress protection.	
Level of water protection	Main Unit	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure.
	RAYLITE 300	Has protection from frequent rain; met IPX4
	RAYLITE 100	Has protection from frequent rain; met IPX4
	RAYLITE 200	Has protection from frequent rain; met IPX4
SOLAR DETAILS		
PV module type	Polycrystalline silicon	
PV maximum power	51 watts	
MAIN UNIT BATTERY DETAILS		
Battery replaceability	Easily replaceable with common tools; however, only authorized personnel can replace battery as warranty is void if product is opened by user.	
Battery chemistry	Lithium iron phosphate	
Battery package type	16 x 26650	
Battery capacity	13.4 Ah	
Battery nominal voltage	12.8 V	
Battery status indication	4 LED indicators for power, battery status, keypad entries, and PAYG credit status. Battery status is indicated with 4 LEDs that show the percentage charge. When residual charge is zero, the unit automatically switches off and will turn on again when it is charged above 50%.	
MARKS AND CERTIFICATIONS		
Factory certification	ISO 9001:2015	
Safety certification	IEC 61730	
Other certification	IEC 61215, IEC 62509, IEC 62109, EN61000-1, EN61000-3	
PRODUCT DETAILS		
Manufacturer name	Plug The Sun Limited	
Product name	RAYGO 150	
Product model / ID number	RAYGO 150	
Contact information	sales@plugthesun.com	
Website	www.plugthesun.com	
Dimensions (entire product in package)	270 x 285 x 347 cm	
Mass	9590 g	
SSS INFORMATION		
Specs sheet expiration date	March 31, 2022	
Quality standards framework version	2020	
Revision	2020.04	