

Solar Home System

GL-80PG

Brand name: Ningbo Green Light Energy

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

Verify online:

<https://data.verasol.org/products/sek/ngl-gl80pg>

Valid until: May 31, 2027



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



Mobile charging

3

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/m²/day)	
VeraSol Certified?	Included in Kit?	Appliance ^a	Description	Used alone ^b	Used in combination ^c
yes	included	Main lighting unit	3 light points "on" totaling 620 lumens and 5.7 W power	40 hours	33 hours
no	not included	Smart phone	Smart phone (5.7 Wh battery)	30 full charge(s)	8.4 full charge(s)

Available daily electrical energy ^c (Wh/day)	250
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Performance measure	Brightness setting: 3 lights "on"
Lighting full battery run time ^d for main unit (hours)	40
Total lighting service (lumen-hours / solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	24800

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

^b Without any other loads used during the run time

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

^d 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 ^e (lm/W)	CRI ^f	CCT ^g	Distribution type	Lumen maintenance ^h
2 W lamp	3	3	On	210	1.9	110	82	6900	Wide	100%

^e Lumen efficacy is the power consumption at a light point during the light output test.

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

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

^h Percent of the original light output that remains after 2,000 hours of run time.

PORTS		
2	USB 2.0 type A	 Mobile phones can be charged. Adapters are included.
4	Barrel jack	 12 V ports available to power light points.
DURABILITY		
Overall durability and workmanship		Pass
Durability tests passed		Switch test, Strain relief test, Physical ingress protection, PV durability tests
Level of water protection	Main Unit	Water ingress protection not tested, meant for indoor use only.
	PV module	Has protection from permanent outdoor exposure
	2 W lamp	Water ingress protection not tested, meant for indoor use only.
SOLAR DETAILS		
PV module type		Monocrystalline silicon
PV maximum power		72 W
PV rated power		80 W
PV open-circuit voltage (V _{oc})		21.6 V
MAIN UNIT BATTERY DETAILS		
Battery replaceability		Not easily replaceable with common tools.
Battery chemistry		Lithium iron phosphate
Battery package type		26700
Battery capacity		18 Ah
Rated Battery capacity		18 Ah
Battery nominal voltage		12.8 V
Battery status / other indicator lights		Three LED indicators for battery life, one indicator for working status, and one indicator for lamp status
PRODUCT DETAILS		
Company name		Ningbo Green Light Energy Group Co., Ltd.
Brand Name		Ningbo Green Light Energy
Product name		Solar Home System
Product model / ID number		GL-80PG
Contact information		sales@glenergy.cn
Website		www.glenergy.com
Dimensions (entire product in package)		Multiple packages. Contact manufacturer for more information.
Mass		n/a
SSS INFORMATION		
Specs sheet expiration date		May 31, 2027
Revision		2025.04