PL-100P-HP-LFP30 Solar Home System

PL-100P-HP-LFP30
Poly New Energy Technologies(Beijing)Co. Ltd.

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

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

📱 **Mobile charging**

PAYG **Pay-As-You-Go option available**

4 **Light point(s)**

▶ **Plug-and-play**

WARRANTY INFORMATION

A 3-year warranty for the whole system covering manufacturing defects for the main system. A 1-year warranty for non-lighting appliances, USB adapters, and similar accessories.

PERFORMANCE DETAILS

VeraSol Certified?	Included in Kit?	Appliance[a]	Description	Run time after a typical day of solar charging (assuming 5kWh/m^2/day)	
				Used alone[b]	Used in combination[c]
yes	included	Main lighting unit	4 light points on ON totaling 1170 lumens and 9.2 W power	35 hours	7.8 hours
no	not included	Television	19" TV (15 W power consumption while in use)	21 hours	4 hours
no	not included	Radio	portable radio (Li-ion battery: 1 Ah, 3.7 V) with power consumption of 0.5 W while in use]	220 hours	8.1 hours
no	not included	Smart phone	Smart phone (5.7 Wh battery)	36 full charge(s)	2 full charge(s)

Available daily electrical energy[c] (Wh/day)	310

Performance measure	Brightness setting: on
Lighting full battery run time[d] for main unit (hours)	42
Total lighting service (lumen-hours/solar-day) (includes the both main lighting unit and any lights with internal batteries included with the product)	45600

[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	Light output (lm)	Lumen efficacy[e] (lm/W)	CRI[f]	CCT[g]	Distribution type	Lumen maintenance[h]
5 W bulb	1	1	on	630	130	84	6800	Omnidirectional	99%
1.5 W bulb	3	1	on	180	120	76	7800	Omnidirectional	99%

[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 and radios can be charged. Adapters are not included.
8	**Barrel jack**		12 V ports available to charge devices and power appliances and 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

SOLAR DETAILS

PV module type	Polycrystalline silicon
PV maximum power	100 watts

MAIN UNIT BATTERY DETAILS

Battery replaceability	Easily replaceable with common tools.
Battery chemistry	Lithium iron phosphate
Specific Li-ion battery chemistry	lithium iron phosphate
Battery package type	20 x 32700 cells
Battery capacity	31 Ah
Battery nominal voltage	12.8 V
Battery status/ other indicator lights	One green LED for showing the photovoltaic charging, four yellow LED for showing the battery capacity and one red LED for showing the load status

PRODUCT DETAILS

Manufacturer name	Poly New Energy Technologies(Beijing)Co. Ltd.
Product name	PL-100P-HP-LFP30 Solar Home System
Product model / ID number	PL-100P-HP-LFP30
Contact information	liujia@polysolar.cn
Website	https://en.polysolar.com.cn/
Dimensions (entire product in package)	Multiple packages. Contact manufacturer for more information.
Mass	Multiple packages. Contact manufacturer for more information.

SSS INFORMATION

Specs sheet expiration date	April 30, 2025
Revision	2023.09