



Solar panel

Peak Power	6 Wp
Type	Mono/Poly-crystalline
Vmp	17.0V DC
Voc	21.5V DC

Power box

Inputs (Port 1 and 2)	Working Input Voltage Range:16.5V to 19V DC (Max. input voltage: 23V DC) Max Input Power: 50Wp Port 2 provides optional source of charging
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Outputs	<ul style="list-style-type: none"> • 2 x fixed lamp ports with dimming • 3 x 5V,500 mA USB ports • 1 x inbuilt LED lamp (15 lumens) • 1 x 12V, 2A DC output port
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Protections	PV Reverse polarity, Overcharge, Overload, Load short circuit
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Inbuilt Battery	12.8V 1.5Ah Lithium Ferro Phosphate battery
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Low battery disconnect voltage	10.8 ± 0.2 V
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Low battery reconnect voltage	12.0 ± 0.2 V
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LED Lamps

No. of Lamps	2 fixed lamps and 1 portable lamp
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Total light output	500+ lumens
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Light output and Backup duration of fixed lamps with power box

Mode	Night Light	Normal	High
Light output	10 Lumens	85 Lumens	170 Lumens
Backup (1 lamp)	80 Hrs	24 Hrs	12 Hrs
Backup (2 lamps)	40 Hrs	12 Hrs	6 Hrs

Power consumption by each Fixed /Portable lamp	1.2 W in High Mode
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LED color Temperature	5000K
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Light output and Backup duration of Portable lamp	<ul style="list-style-type: none"> • High mode: 120-150 Lumens, Backup: 3hrs* • Night Light mode: 10 Lumens, Backup: 20hrs <p>*lamp provides additional lighting hours by switching to low power mode automatically</p>
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Battery in each portable lamp	3.7V Li-Ion
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Product data sheet

Characteristics

AEH-LSHS01-06W3L

Solar Home System – S01

Product Certifications (In-progress)

Lighting Global, SONCAP, SABS, LM79, LM80

Included accessories

0.3 Sq.mm X 5 m cable for PV

0.3Sq.mm X 5 m cable for each fixed lamp with 2 m cable switch

0.3Sq.mm X 2m cable for each portable lamp

5-in-1 universal charging cable

Indications

Battery Status	Battery Charge (Tri-color LED)	Battery Low (RED LED)
Charging	Blinking (Red/Orange/Green)	-
Battery fully charged	Constant (Green ON)	-
Discharging	Constant (Red/Orange/Green)	Slow Blinking
Battery Low Cut Off	-	Continuous
Output Over Load or Short Circuit (DC 12V Port)	-	Fast blink

Mechanical Specifications

Dimensions - Lamp (B x H X D)

140 mm x 77 mm x 30 mm

Dimensions - Solar panel (B x H X D)

250 mm x 250mm x 22 mm

Dimensions – Power box (B x H X D)

230 mm x 154 mm x 87 mm

Environment

Operating temperature

0 to 45° C

Relative humidity

90%

Packaging Information

Type	Dimensions (L x B x H in mm)	Net weight (Kg)	Gross weight (Kg)	No. of units
Unitary package	322 x 281 x 136	2.50	2.90	1
Group package	298 x 668 x 314	11.6	13.1	4
Pallet package	1200 x 1000 x 1096	196.50	231.50	60