

# SHURJO ENERGY

## SOLAR POWER SOLUTIONS

### 60W POLYCRYSTALLINE SOLAR MODULE (CIGS)

#### Model

SE60-J14

#### General

Shurjo Energy high efficiency photovoltaic modules are made using the latest polycrystalline Copper Indium Gallium diSelenide ("CIGS") solar cells, which represents the latest advances in thin film solar technology.

The modules provide for consistent power and do not degrade when exposed to sunlight.

The module is constructed using high quality and proven technology in its construction and makes for a robust lightweight solar module.

#### Features

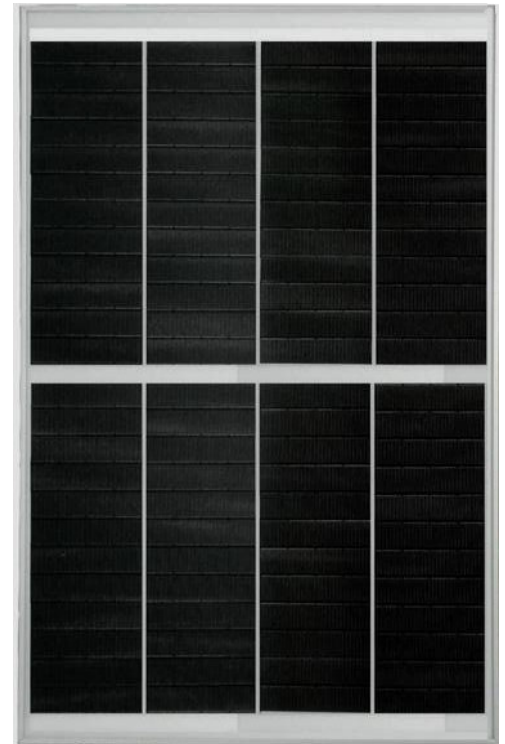
- Ultra-tough 3.2 mm toughened and textured glass
- 3 layer tedlar® with aluminium interlayer
- Reinforced anodized aluminium frame
- Pre-drilled frame for easy mounting
- High quality junction box with diode protection
- 25 year limited warranty\*
- Power tolerance +/- 10%
- Quality: Manufactured to IEC 61646



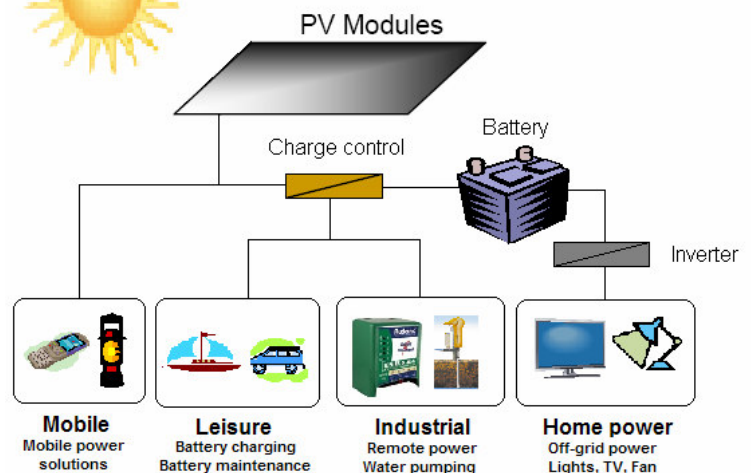
\* Warranty: 25 year against manufacturing defects & to 80% of rated power, providing panel is undamaged

#### Applications

- Off-grid home systems
- Rural electrification
- Water pumping
- Battery charging
- Lighting systems & lanterns
- Automotive
- Gate opening or fence charging

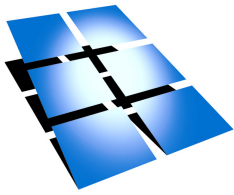


### Solar power solutions



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# Polycrystalline module information

## 60W

### Specifications

#### SE60-J14

Cell	Crystalline CIGS (Copper Indium Gallium diSelenide) onto thin film stainless steel foil
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### Characteristics (+/- 10%)

Open circuit voltage (VOC)	27.3V
Optimum operating voltage (Vmp)	17.9V
Short circuit current	4.32A
Optimum operating current (Imp)	3.38A
Power at STC (Pmax)	60W
Temperature coefficient for power & voltage %/°C	-0.6

Note: Modules, when first used, need two days of full sun exposure before reaching optimum performance

### Limits

Operating temperature	-40 to +85°C
Maximum system voltage	500V DC

### Output

Type of output terminal	Junction box with 1.5 meter each (red +) and (black -) flying lead
Cable	2.5 mm <sup>2</sup> - 20 amp - 1100V
Cable length	1.5m (1 core x 2 nos.)
Connection	Stripped wire (Open terminal box or connector available upon request)

### Module Dimension

Weight	9.76kg
Dimension of module (a) x (b)	788 x 1096 x 34 mm
Mounting oblong hole	8 x 7 mm
Module design (c) (Distance between mounting hole)	600 mm
Module design (d) (Distance from corner)	248 mm
Frame design (X) - (Y)	34 x 22 mm

STC: Irradiance 1000W/m<sup>2</sup>. Module temperature 25°C, AM=1.5

