

# SHURJO ENERGY

## SOLAR POWER SOLUTIONS

### 15W POLYCRYSTALLINE SOLAR MODULE (CIGS)

#### Model

SE15-I15

#### 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

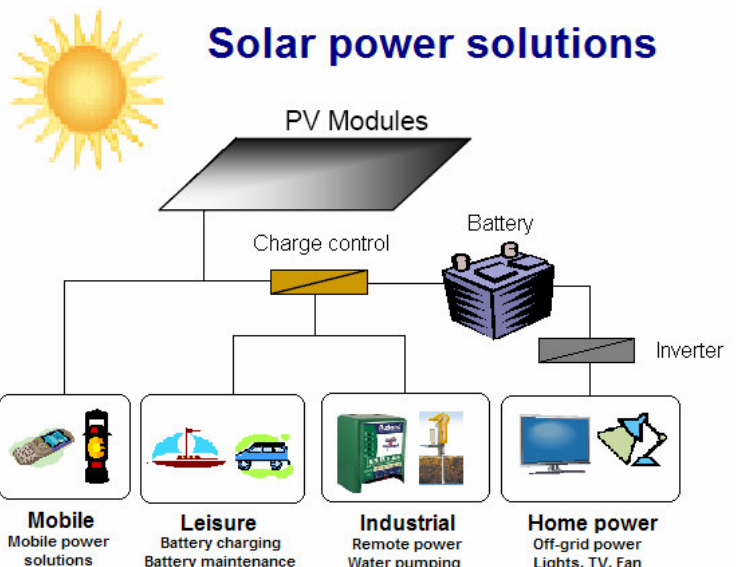
- Ultra-tough 3.2 mm toughened and textured glass
- 3 layer tedlar® with aluminium interlayer
- Reinforced anodized aluminium frame
- Pre-drilled frame for easy mounting
- High quality junction box with diode protection
- 25 year limited warranty\*
- Power tolerance +/- 10%
- Quality: Manufactured to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



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

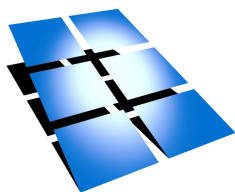
#### Applications

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



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# Polycrystalline module information

## 15W

### Specifications

#### SE15-I15

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

Open circuit voltage (VOC)	28.0V
Optimum operating voltage (Vmp)	18.5V
Short circuit current	1.05A
Optimum operating current (Imp)	0.81A
Power at STC (Pmax)	15W
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	Potted junction box with 3 meter flying lead
Cable	0.5 mm <sup>2</sup> - 4 amp - 1100V - 6.1mm overall diameter (red +) and (black -)
Cable length	3m
Connection	Stripped wire (Open terminal box or connector available upon request)

#### Module Dimension

Weight	2.7kg
Dimension of module (a) x (b)	406 x 596 x 22 mm
Mounting oblong hole	8 x 6 mm
Module design (c) (Distance between holes)	300 mm
Module design (d) (Distance from corner)	148 mm
Frame design (X) - (Y)	21 x 22 mm

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

