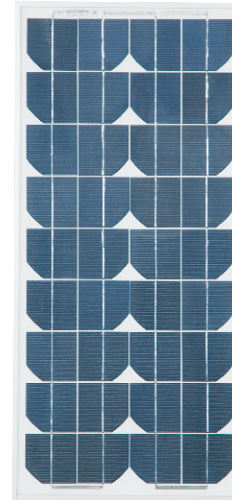


CS5E-15/18/20

CS5E Series is designed for powering small commercial application and consumer products.

CSI's meticulous design and production techniques ensure a high-yield, long-term performance for every module produced. Our rigorous quality control and in-house testing facilities ensure CSI modules meet the highest quality standards possible.



KEY FEATURES

- **36 High-Efficiency Solar Cells**
- **Special Aluminum Frame Design** - The specially treated frame aluminum substantially increases module endurance against high winds and snow load.
- **Reinforced Solar Glass** - The high-transparency low-iron tempered glass allows maximum light permeability while enhancing stiffness and impact resistance.
- **Advanced Cell Encapsulation** - The interconnected cells are embedded in ultra transparent EVA with multilayer backsheets for additional weather protection.
- **Optimized Module Surface Area** - The distance between the frame edge and the cell circuitry is calculated according to the electrical output optimization.

APPLICATIONS

- Power source for remote telecommunication equipment
- Monitoring systems for the oil & gas industry
- Traffic, security, environment, and other remote monitoring and signaling systems
- Water pumping systems
- Rural electrification
- Small home power systems
- 12V or 24V battery charging system
- Other industrial and consumer applications

CERTIFICATIONS

Module Certificates

- IEC 61215, CE



* IEC 61215 Certified Models CS5E-18P, CS5E-15P

Factory Certificates

- ISO 9001:2000, ISO/TS 16949:2002
- QC 080000

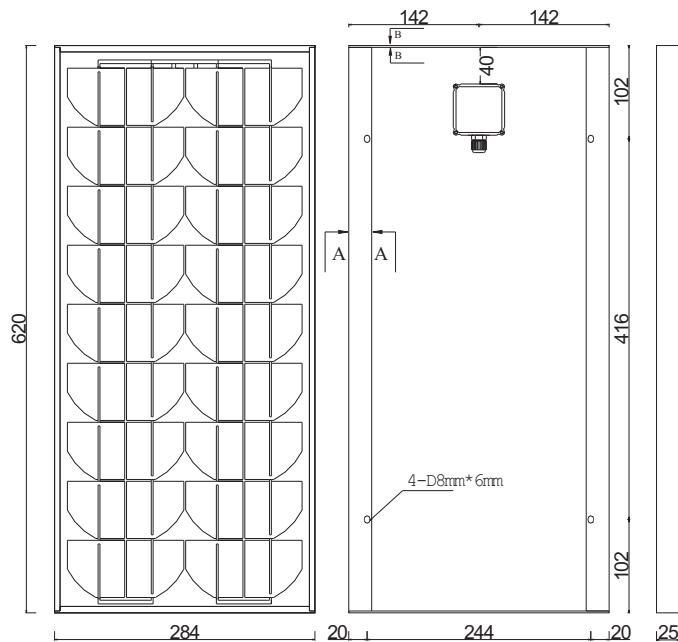


WARRANTY

- Warranty terms upon request

CS5E-15/18/20

Mechanical Specifications



Dimensions		
Length*Width*Depth	mm (in)	620 x 284 x 25 (24.4 x 11.2 x 1.0)
Weight	kg (lbs)	2.5 (5.5)

Cells	
Cell Material	Mono or Polycrystalline
Number of Cells	36

Electrical Characteristics

Electrical Performance

Under Standard Test Conditions (STC) of irradiance of 1000W/m², spectrum AM 1.5 and cell temperature of 25°C

		CS5E-15	CS5E-18	CS5E-20
Maximum Power	P _{max}	15W	18W	20W
Voltage at Maximum Power	V _{mp}	17.3V	17.4V	17.5V
Current at Maximum Power	I _{mp}	0.87A	1.04A	1.15A
Open Circuit Voltage	V _{oc}	21.4V	21.5V	21.8V
Short Circuit Current	I _{sc}	0.97A	1.15A	1.24A
Maximum System Voltage		1000V(IEC)/600V(UL)		
Temperature Coefficient	Voltage (V _{oc})	-0.35 %/°C		
	Current (I _{sc})	0.060 %/°C		

*NOCT (Normal Operating Cell Temperature): 45°C

**Module power tolerance: ±2W (approx. ±10%)

*Specifications included in this datasheet are subject to change without prior notice.



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