

Power

55Wp Photovoltaic Module

- Encapsulated Design Resists Corrosion
- No Maintenance Required
- Manufacturer warranty: 80% peak power after 25 years, 90% after 10 years
- Designed According to CE, IEC61215 Standard, SC-II
- 5-year product warranty

Alpha silicon solar modules use breakthrough technology perfected by nearly 40 years of manufacturing technology.

These modules use a textured cell surface and tempered glass to reduce reflection of sunlight. The anti-reflective coating increases the absorption of light in all weather conditions.

These solar modules can be applied in many areas including building roofs, photovoltaic power plants, telecommunication hubs, weather stations, broadcast towers, navigation marks, railways and road intersections.



55Wp Photovoltaic Module

Electrical Characteristics

Maximum Power (Pmax)	55Wp
Power Tolerance	±5 %
Maximum Power Voltage (Vmp)	17.1 Volt
Maximum Power Current (Imp)	3.22 Ampere
Open circuit Voltage (Voc)	21.0 Volt
Short circuit Current (Isc)	3.76 Ampere
Temp. coefficient Voc	-0.35±0.02 %/°C
Temp. coefficient Isc	+0.04±0.0015 %/°C
Temp. coefficient Power	-0.5±0.05 %/°C
Nominal operating cell temperature (NOCT)	47°C±2°C

Cells

Cell Type	Mono-Crystalline
Number Cells	35 in series

Standard Test Conditions

AM	1.5
Irradiation	1000 W/m ²
Tc	25 °C

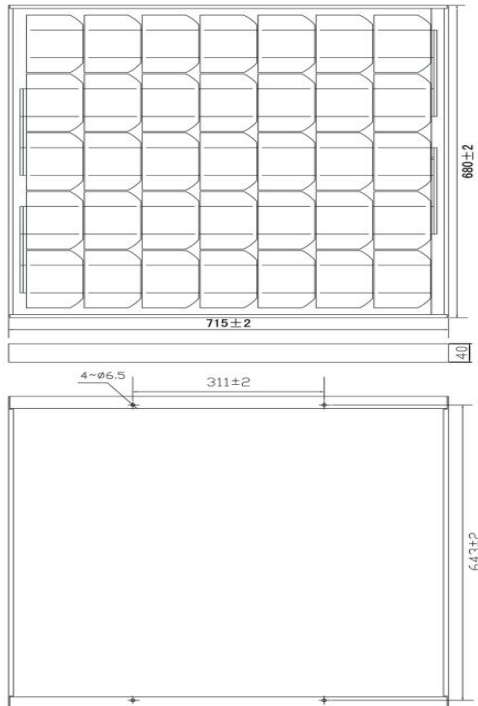
Mechanical Characteristics

Length	715 mm
Width	680 mm
Depth	40 mm
Weight	6.5 kg
Front glass thickness	3.2 mm
Encapsulant	EVA
Back side	TPT

Absolute Maximum Ratings

Operating Temperature	-40 to +90 °C
Storage Temperature	-40 to +90 °C
Dielectric Isolation Voltage	1000 VDC max
Maximum Wind Resistance	60 m/s
Maximum Load Capacity	200 kg/m ²
Maximum Hail diameter	25 mm @ 80km/h

Module Drawing and Measurements



A: 715MM B: 680MM C: 40MM D: 1176±2MM E: 737±2MM

For contact information visit www.alphatechnologies.com

The Alpha Group >

North America	Europe, Middle East & Africa		Asia Pacific	Latin & South America
USA Tel: +1 360 647 2360 Fax: +1 360 671 4936 Canada Tel: +1 604 430 1476 Fax: +1 604 430 8908	Cyprus Tel: +357 25 375 675 Fax: +357 52 359 595 Russia Tel: +7 495 925 9844 Fax: +7 495 916 1349	Germany Tel: +49 9122 79889 0 Fax: +49 9122 79889 21 United Kingdom Tel: +44 1279 501110 Fax: +44 1279 659870	Lithuania Tel: +370 5 210 5291 Fax: +370 5 210 5292 P.R. China Tel: +852 2736 8663 Fax: +852 2199 7988	Contact USA office