



Module appearance may vary. Cells have rounded corners with either 165 or 150mm diameter.

65W Photovoltaic module **365J**

Our latest generation of small area modules offers the following benefits:

Built to last

From mountaintops to off-shore platforms, on weather stations in the bitter cold of Antarctica and on telephone signal repeaters in the hot Australian outback, the technology has been proven in the harshest environments.

Accessible junction box for off grid connections

J-type junction box has accessible terminals for easier module interconnections in off grid applications, and it allows fitting cable glands for various cable sections.



High reliability

Cell interconnections and diode placement use well-established industry practice and are field-proven to provide excellent reliability.



Thick, durable, scratch resistant back sheet

The thick back sheet provides extra insulation and increased resistance to protect your module against

rough handling. The white polyester material lasts longer and increases energy production.



65W Photovoltaic module – 365J

Electrical characteristics	(1) STC 1000W/m ²	(2) NOCT 800W/m ²
Maximum power (P _{max})	65W	46.8W
Voltage at Pmax (V _{mpp})	17.6V	15.7V
Current at Pmax (Impp)	3.69A	2.95A
Short circuit current (Isc)	3.99A	3.23A
Open circuit voltage (Voc)	21.7V	19.7V
Module efficiency	12.1%	
Tolerance Pmax	± 10%	
Nominal voltage	12V	
Efficiency reduction at 200W/m ²	<5% reduction (efficiency 11.5%)	
Limiting reverse current	3.99A	
Temperature coefficient of Isc	0.105%/ °C	
Temperature coefficient of Voc	-0.360%/ °C	
Temperature coefficient of Pmax	-0.45%/ °C	
⁽³⁾ NOCT	47 ±2 ℃	
Maximum series fuse rating	10A	
Application class	Class A (according to IEC 61730-2007)	
Maximum system voltage	600V (US) / 1000V (IEC)	
1: Volues at Standard Test Conditions (STC): 1000W/m ² izadiance, AM1 E color spectrum and 25% module temperature		

1: Values at Standard Test Conditions (STC): 1000W/m² irradiance, AM1.5 solar spectrum and 25°C module temperature

2: Values at 800W/m² irradiance, Nominal Operation Cell Temperature (NOCT) and AM1.5 solar spectrum

3: Nominal Operation Cell Temperature: Module operation temperature at 800W/m² irradiance, 20°C air temperature, 1m/s wind speed

All solar modules are individually tested prior to shipment; an allowance is made within our factory measurement to account for the twoical power degradation (LILD effect) which occurs during the first few days of deployment.

SES MAPPS Solar Module Mechanical characteristics

Solar cells	36 polycrystalline silicon cells in series
Front cover	High transmission 3.2mm (1/8") glass
Encapsulant	EVA
Back cover	White polyester
Frame	Silver anodized aluminum
Junction box	IP65 with 4 terminal screw connection block; accepts PG 13.5, M20 13mm (½") conduit, or cable fittings accepting 6-12mm diameter cable.
Terminals	accept 2.5-10mm2 (8-14 AWG) wire
Dimensions	796 x 674 x 50mm / 31.3 x 26.5 x 1.97in
Weight	6.4kg /14lbs

All dimensional tolerances within $\pm 1\%$ unless otherwise stated.

Warranty*

- Free from defects in materials and workmanship for 2 years
- 90% Min power output for 12 years
- Optional 25 years available *Refer to limited warranty certificate for terms and conditions

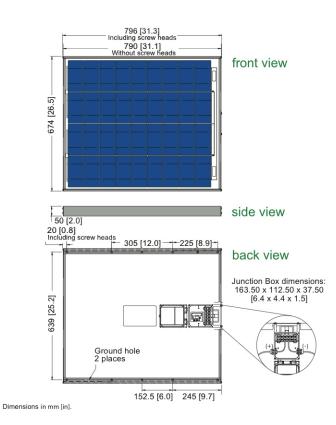
SES MAPPS Solar Module Certification

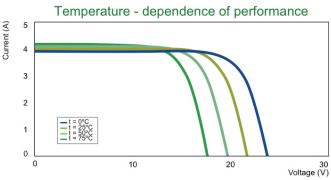
Certified according to the extended version of the IEC 61215 (ed. 2), EC 61215:2005-08 (Crystalline silicon terrestrial photovoltaic modules - Design qualification and type approval)

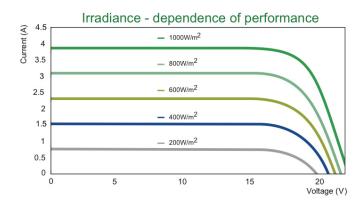
Certified according to IEC 61730-1 and IEC 61730-2 (ed. 1), EN 61730-1:2007-05 and EN 61730-2:2007-05. (photovoltaic module safety qualification, requirements for construction and testing).

Listed to UL 1703 & ULC ORD-C1703 Standard for Safety by Intertek ETL. Class C Fire Rating.

Approved by Intertek ETL according to FM 3611, Dec 2004, and according to CAN/CSA C22.2 No. 213-M1987, 1st Edition, Reaffirmed 2004, for use in a Class I Division 2, Group A, B, C, D Hazardous (Classified) Location.









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