

High Power Photovoltaic Module

D-SWM-200W/60P-SE
D-SWM-205W/60P-SE
D-SWM-210W/60P-SE
D-SWM-215W/60P-SE
D-SWM-220W/60P-SE
D-SWM-225W/60P-SE
D-SWM-230W/60P-SE
D-SWM-235W/60P-SE
D-SWM-240W/60P-SE
D-SWM-245W/60P-SE

Product features

High transmission low-iron
tempered glass

Firm oxide aluminum frame with
special designed mounting holes
and draining holes

Warranty

Product warranty:
12 years (material & manufacture)

Output guarantee:
10 years on 90% of maximum output
25 years on 80% of maximum output



ISO 9001:2000 Certificated Plant



TECHNICAL DATA
 High Power Photovoltaic Module
 D-SWM-200W-245W/60P-SE



Electrical Data

| | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
| Maximum Power (+3%Wp) | 200W | 205W | 210W | 215W | 220W | 225W | 230W | 235W | 240W | 245W |
| Maximum power voltage (Vmp) | 28.3V | 28.5V | 28.7V | 28.9V | 29.1V | 29.3V | 29.5V | 29.7V | 29.9V | 30.1V |
| Maximum power current (Imp) | 7.07A | 7.20A | 7.32A | 7.44A | 7.56A | 7.68A | 7.80A | 7.92A | 8.03A | 8.14A |
| Open circuit voltage (Voc) | 35.7V | 35.9V | 36.1V | 36.3V | 36.5V | 36.7V | 36.9V | 37.1V | 37.3V | 37.5V |
| Short circuit current (Isc) | 7.61A | 7.72A | 7.83A | 7.92A | 8.01A | 8.12A | 8.22A | 8.32A | 8.41A | 8.51A |
| Maximum system voltage (Vmax) | 1000V | 1000V | 1000V | 1000V | 1000V | 1000V | 1000V | 1000V | 1000V | 1000V |
| Cell Efficiency | 13.7% | 14.1% | 14.4% | 14.7% | 15.1% | 15.4% | 15.8% | 16.1% | 16.5% | 16.8% |
| Module Efficiency | 12.3% | 12.6% | 12.9% | 13.2% | 13.6% | 13.9% | 14.2% | 14.5% | 14.8% | 15.1% |
| Cell Configuration | | | | | | | | | | 60 in series |
| NOCT: Nominal Operation Cell Temperature | | | | | | | | | | 45°C±2°C |
| Temp. coefficient Power | | | | | | | | | | -0.50%/°C |
| Temp. coefficient Isc | | | | | | | | | | + 0.043%/°C |
| Temp. coefficient Voc | | | | | | | | | | -0.34%/°C |

*Measurement conditions under irradiance level of 1000W/m², 1.5 Air Mass Spectrum, cell temperature of 25°C

Mechanical Data

| | |
|----------------------------|-----------------------------|
| Dimension of module | 1640(L) x 992(W) x 50(H) mm |
| Weight | 20 kg |
| Frame structure (Material) | Aluminium |
| Front side | Glass |
| Front glass thickness | 3.2 mm |
| Encapsulant | EVA |
| Back side | TPT |

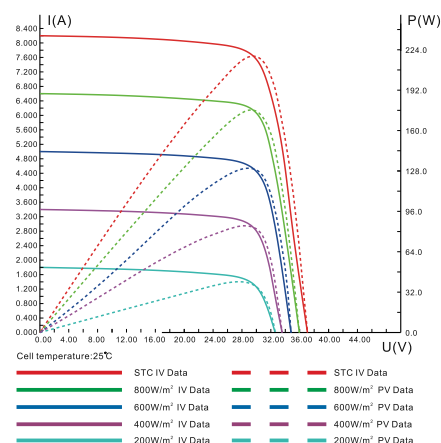
Absolute Maximum Ratings

| | |
|--------------------------------|----------------|
| Operating Temperature | -40°C to +85°C |
| Maximum Hail diameter @ 80Km/h | up to 25mm |
| Continuous wind pressure | up to 130 Km/h |

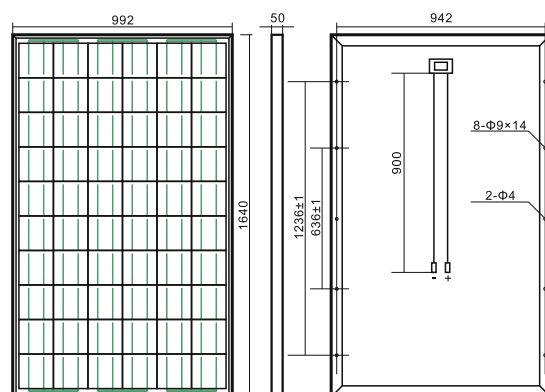
Packing Configurations

| | |
|----------------------|------------------------|
| Packing configuratin | 20 pcs. / à pallet |
| Quantity/pallet | 1 box / à pallet |
| 40 foot Container | 560 pcs. / à container |

Characteristic Curves



Dimensions



Indemnity against liability: Given technical data are averages and could vary slightly. The directly related data of the special measuring - flashreport are decisive. Subject to changes, errors and omissions excepted. Technical changes within the further development are to be reserved by the manufacturer and producer. Images can differ from actual/original product.

Data as: July 2011



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