

DXPVM230P6-30 PV Module

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230W High Performance Polycrystalline Solar PV Module

FEATURES

- High module conversion efficiency up to 14.2%
- Guaranteed output tolerance within -0%/+3% ensures high reliability
- Bypass diodes minimise shading output losses
- Tough anodised aluminium frame with drainage holes
- Entire module certified to withstand high mechanical loads up to 2400N/m²
- 1000V DC maximum system voltage
- Anti reflective, hydrophobic self cleaning glass increases optical performance
- Suitable for:
 - Residential roof top systems
 - On-grid commercial systems
 - Off-grid commercial systems



WARRANTY

- **10 year product warranty**
- 10 year performance guarantee for a power output of 90%
- 15 year performance guarantee for a power output of 85%
- 25 year performance guarantee for a power output of 80%

CERTIFICATION

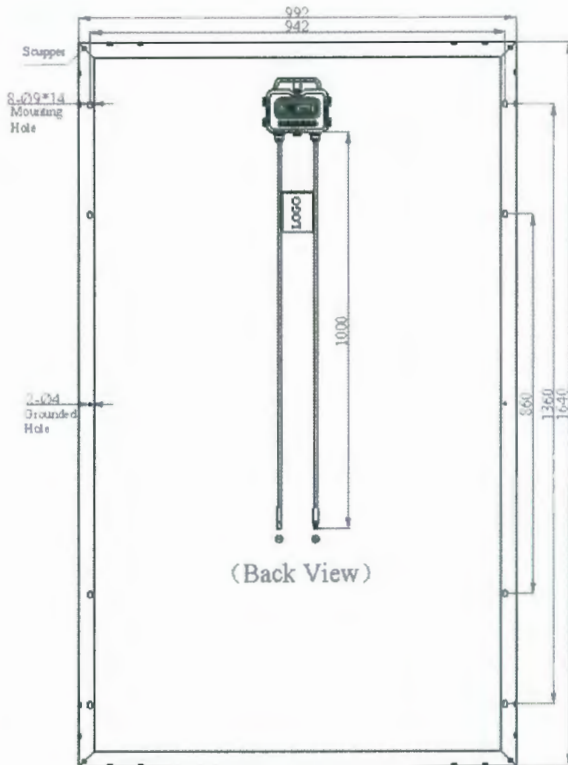
- IEC61215 PV module design qualification and type approval
- IEC61730 PV module safety qualification
- IEC61701 Salt mist corrosion testing of PV modules
- IEC62716 Ammonia corrosion testing of PV modules
- CE conformity
- MCS
- PV Cycle
- ISO9001:2008 & ISO14001:2004



MCS PV0017

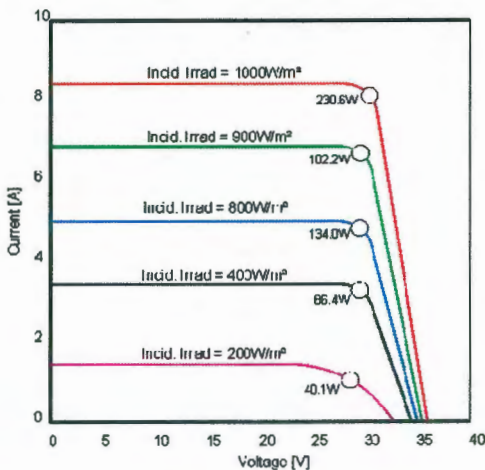
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Specifications



Characteristic Curves

Current-Voltage & Power-Voltage Characteristics



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Electrical Characteristics

Standard Test Conditions (STC):	DXPVM230P6-30
Maximum power at STC (pmax)	230Wp
Output tolerance	-0% / +3%
Guaranteed minimum power	230Wp
Maximum power operating voltage (Vmp)	30.00V
Maximum power operating current (Imp)	7.67A
Open circuit voltage (Voc)	36.00V
Short circuit current (Isc)	8.59A
Module efficiency (ηm)	14.2%
Cell efficiency	15.8%

Irradiance 1000W/m², module temperature 25°C, spectrum air mass = 1.5

Normal Operating Cell Temperature (NOCT):	DXPVM230P6-30
NOCT	45°C +/-2°C
Maximum power (Pmax)	163.47
Maximum power operating voltage (Vpm)	25.97
Maximum power operating current (Ipm)	6.29
Open circuit voltage (Voc)	33.16
Short circuit current (Isc)	6.78
Temperature co-efficient – open circuit voltage (αVoc)	-0.34%/K
Temperature co-efficient – short circuit current (αIsc)	0.045 %/K
Temperature co-efficient – peak power (αPmax)	-0.47%/K

Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s

Mechanical Characteristics

Solar cell	Polycrystalline 156 x 156mm
No of cells	60 (6x10) in series
Dimensions	1640mm x 992mm x 50mm (1.63m²)
Weight	20.5kg
Front glass	3.2mm tempered glass
Frame	Anodized aluminium alloy
Junction box	IP65 rated
Connection type	2x 1000mm x 4mm² cable with MC3 inter-connectors

Limits

Operating temperature	-40°C to +85°C
Maximum system voltage	1000V DC
Maximum mechanical load	2400Pa
Over current protection	15A

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