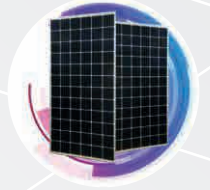


144 MONO PERC SOLAR CELLS



WITH M10 CELLS

Mono Perc Half Cut Solar Modules



Technology & Quality

InterSolar one of the most experienced and largest manufacturer of Solar Energy equipments and solar photovoltaic models.

Lower LCOE with LESS BOS COST which improves value proposition of the product with competitive ROI

APPLICATIONS

- On-grid large scale utility systems
- On-grid rooftop industrial and commercial systems
- Rooftop residential systems

Implementation of bypass diodes in split JB series-parallel connections enable the module to perform in **PARTIAL SHADOW CONDITIONS** with respect to full cell module



LOW-LIGHT PERFORMANCE

Advanced glass and cell surface textured design ensure excellent performance in low-light environment

For complete information. Please contact **INTER SOLAR SYSTEMS PVT. LTD.**

901-A, Business Development Centre, Phase-II, Chandigarh 160 002
Ph : (0) 0172-4589999, 2655349 | E-mail : info@intersolarsystems.com
Website : www.intersolarsystems.com



Glass with anti reflective coating improves light transmission



PID resistant with long term reliability



Sustain heavy wind & snow loads



SAVE ENERGY. SAVE MONEY. SAVE ENVIRONMENT



CERTIFIED FACILITY



ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018

TECHNICAL DATA

Electrical Data^{1,2} All data refers to STC (AM 1.5, 1000 W/m², 25°C)

Peak Power P _{max} (Wp)	540	545	550
Maximum Voltage V _{mpp} (V)	42.6	42.6	42.6
Maximum Current I _{mpp} (A)	12.6	12.7	12.89
Open Circuit Voltage V _{oc} (V)	49.35	49.35	49.35
Short Circuit Current I _{sc} (A)	13.9	13.9	13.9
Module Efficiency (%)	20.94	21.13	21.33

1) STC:1000 W/m² irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3. | 2) Power measurement uncertainty is within +/- 2%.

Electrical Parameters at NOCT

Power (W)	402.70	406.60	410.50
V@P _{max} (V)	38.30	38.60	38.70
I@P _{max} (A)	10.46	10.49	10.56
V _{oc} (V)	46.00	46.10	46.10
I _{sc} (A)	11.05	11.08	11.16

3) NOCT irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec

Temperature Coefficients (TC)

Temperature Coefficient (V _{oc})	-0.26%/°C
Temperature Coefficient (I _{sc})	0.046%/°C
Temperature Coefficient (P _{max})	-0.34%/°C

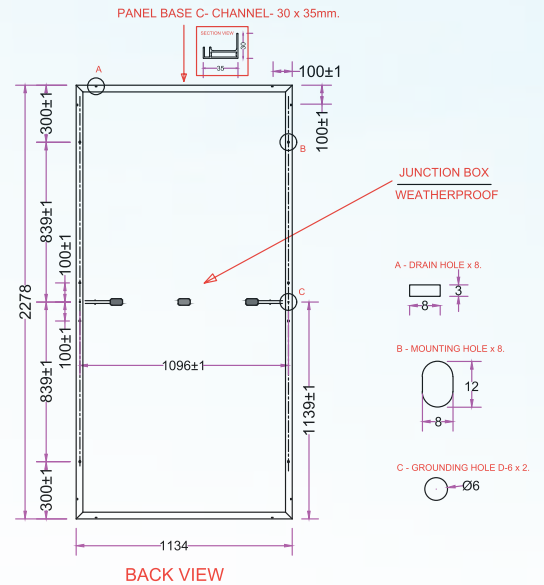
Permissible Operating Conditions

Temperature range	-0.28%/°C
Maximum system voltage	0.048%/°C
NOCT	44 + 2°C

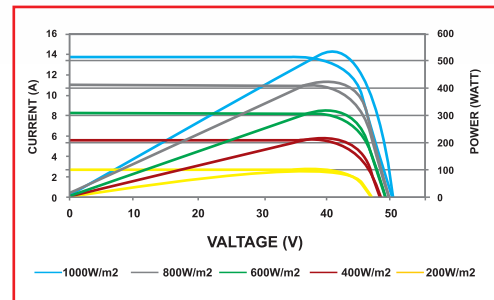
Mechanical Data

Length × Width × Height	2278 × 1134 × 35mm
Weight	28.5 Kg
Junction Box	IP68, Split Junction Box with individual bypass diodes
Cable & Connectors ^o	4mm ² , MC4 Compatible/MC4 Connectors
Application Class	Class A (Safety Class II)
Glass ^{##}	Low Iron Solar Textured Glass (Anti-Glare Glass - Tempered)
Cells	72 Mono PERC (144 half-cells)
Frame	Anodized aluminium frame
Mechanical Load Test	5400 Pa (Snow load), 2400 Pa (Wind load)
Cell Encapsulant	Polyolefin (POE)/ EPE
Maximum Series Fuse Rating	25 A
Fire Safety	Class C

TECHNICAL DATA

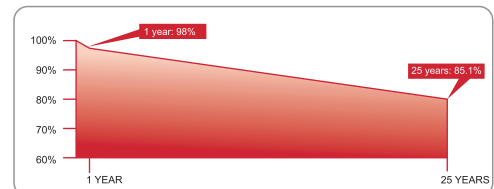


Typical I-V Curves⁴



4) Average relative efficiency reduction of 5% at 200 W/m² according to EN 60904-1.

PERFORMANCE WARRANTY



CAUTION: READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT.

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