

Innovative

Only "You" can save the Earth..... Go Solar with "Innovative"

POLYCRYSTALLINE SOLAR PV MODULE | 36 CELLS | 12V 165 WATT

Innovative - 36 Cell Series | INV-P-12V-165Wp



Product Warranty | Material and workmanship



Module **Pre-sorting** according to PMPP, IMPP and VMPP, **Reduced Module Mismatch Losses**



High EVA gel content contributes to low NOCT and outstanding **Long Term Performance**



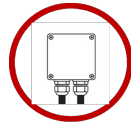
High transparent, low iron toughened **ARC glass** to achieve **High Efficiency**



Electrically insulated and **Mechanically Tested For Heavy Load** 2,400 Pa.



Both fastener **Mounting And Clamping Options** allowed.



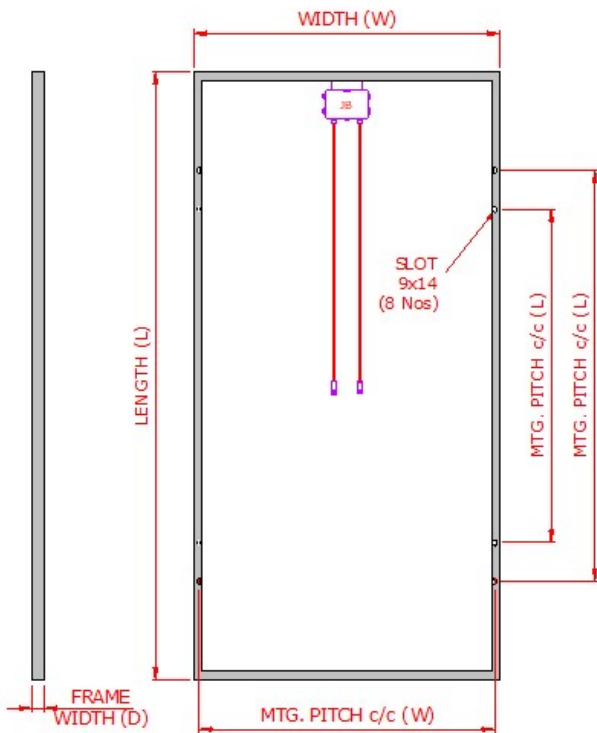
UV Resistant, Weather Proof Junction boxes with bypass diodes, MC4 Compatible cable connectors.



Corrosion Resistant with anodized aluminium frame.



Technical Data | INV-P-12V-165Wp



Electrical Data @ STC

STC: 1000 W/m² irradiance, 25°C cell temperature, AM1.5g spectrum

Maximum Power P _{MPP}	165	Wp
Power Tolerance	±5	%
Maximum Voltage V _{MPP}	18.72	V
Open Circuit Voltage Voc	22.84	V
Maximum Current I _{MPP}	8.8	A
Short Circuit Current I _{sc}	9.3	A
Module Efficiency	16.7	%

Electrical Data @ NOCT

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

Maximum Power P _{MPP}	120.9	Wp
Maximum Voltage V _{MPP}	17.04	V
Open Circuit Voltage VOC	21.67	V
Maximum Current I _{MPP}	7.1	A
Short Circuit Current I _{SC}	7.5	A

Mechanical Data

Dimension	Length (L) × Width (W) × Depth (D) 1485 mm × 665 mm × 30 mm
Mounting Pitch	c/c (L) 750mm c/c (W) 635mm
Number of cells	36 Nos.
Weight	11 kg
Application class	Class A (Safety class II)
Mechanical Load	2400 Pa

Temperature Coefficients (T_c)

permissible operating conditions

T _c of current [α]	(% I _{sc} / °C) 0.034
T _c of Voltage [β]	(% Voc / °C) -0.27
T _c of Power [γ]	(% P _{mpp} / °C) -0.35
Maximum System Voltage	1000 V
NOCT	45°C ± 2°C
Temperature Range	-40°C to + 85°C

Materials used

Type of solar cell	Polycrystalline
Superstrate	3.2 mm high transmission low iron tempered glass, AR coated
Cell Encapsulant	EVA (Ethylene Vinyl Acetate)
Substrate	Back Sheet Composite film
Frame	Frame Anodized aluminium frame with twin wall profile
Maximum Series Fuse Rating	15 A
Junction Box	PPO IP67, 2 bypass diodes 3 Terminal
Cable	Cable with MC4 Connector

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