

Technical Specifications



Specifications	ECE072P300	
Power (Pm) in Watts (nominal)	300	
Open Circuit Voltage (Voc) in Volts	42.04	
Short Circuit Current (Isc) in Amps	8.80	
Voltage at Max Power (Vmp) in Volts	36.10	
Current at Max Power (Imp) in Amps	8.31	
Cell Efficiency (%)	18.57	
Module Fill Factor (%)	79	
Module Efficiency (%)	15.94	
Maximum System Voltage (Vdc)	1500	
Solar Cells per Module (Units) & Module Matrix	66	11*6
No. of Cells per bypass Diode	24	
Diode used detail	20A 45	
Max Series Fuse Rating in Amps	20	

*All electrical parameters specified at STC: 25°C cell temperature; 1000W/M² irradiance; AM 1.5

Temp. Coefficient Tc

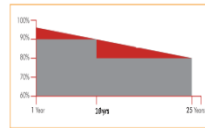
Tc of Open Circuit Voltage (β)
Tc of Short Circuit Voltage (α)
Tc of Power (γ)
NOCT

-0.31%/°C ± 0.02
0.057%/°C ± 0.01
-0.41%/°C ± 0.02
45±2°C

Performance Warranty

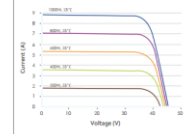
05 years Product Warranty
12 years – 90% of Power
25 Years – 80% of power

Performance Warranty

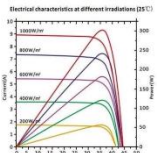
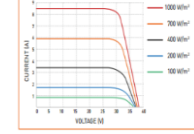


I-V Curve at STC

IV CURVE

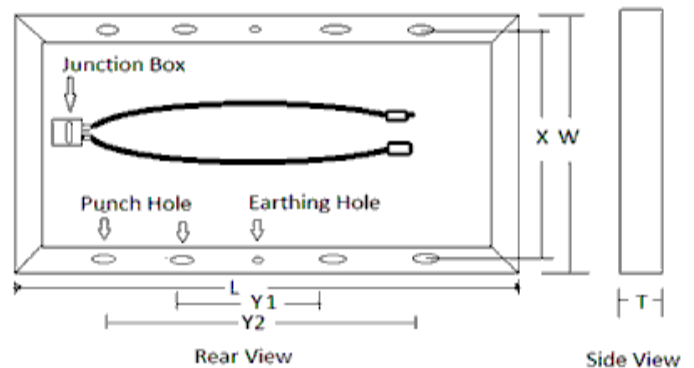


IV Curves



Solar Cells Type	Polycrystalline solar cells -5 BB
Cell size	157mmx157mm
Solar Glass	3.2 mm High transmission low iron tempered glass ARC
Length (L)x Width(W) x Height(T)	1800mmx990mmx30X25mm (± 1.5 mm)
Area	1.78 SQM
Mounting Hole Pitch (Y)	Y1=900mm, Y2=1060mm
Mounting Hole Pitch (X)	952 mm(± 4 mm)
Mounting hole size	8mm*8mm(± 2 mm)
Weight	20.3 Kg.
Cell to Cell Gap	2 mm
Frame	Silver (more then 15 micron) Anodized Aluminium
Cells Encapsulate	EVA (Ethylene Vinyl Acetate)- FC/UFC
Junction Box (Model Type & current Rating)	Prepotted IP 68 rated with 3 Bypass diodes (4 T /3 D) 4 sqm. (12AWG) solar cable 1000mmx2 nos black MC4 compatible connectors
Cable & Connectors	
Mechanical Load Condition	Sustain Heavy wind & snow loads (2400 Pa & 5400 Pa or 550 Kg/m ²)
	Maximum diameter of 24 mm with Hail impact of 83 Km/h

Mounting Diagram Details



Packing Details

Container	20'GP	40'HC
Pallet/Container	10	28
Modules/container	300	840

*Due to constant product modifications, company reserves the right to amend the above specifications without prior notice.

ECE INDIA ENERGIES PRIVATE LIMITED

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