### **Technical Specifications**



Specifications	ECE072M450	
Power (Pm) in Watts (nominal)	450	
Open Circuit Voltage (Voc) in Volts	48.98	
Short Circuit Current (Isc) in Amps	11.12	
Voltage at Max Power (Vmp) in Volts	42.66	
Current at Max Power (Imp) in Amps	10.55	
Module Fill Factor (%)	82.63	
Module Efficiency (%)	20.93	
Maximum System Voltage (Vdc)	1500	
Solar Cells per Module (Units) & Module Matrix	72 12*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

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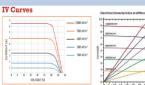
### **Performance Warranty**

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

# Performance Warranty



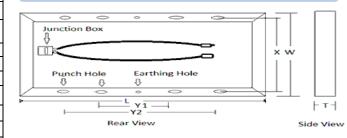
**I-V Curve at STC** 



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Solar Cells Type	Mono Perc solar cells -9 BB		
Cell size	166 mm x166 mm		
Solar Glass	3.2 mm High transmission low iron tempered glass AR coated		
Length (L)x Width(W) x Height(T)	2060mmx1045mmx40mm (± 1.5 mm )		
Area	2.15 SQM		
Mounting Hole Pitch (Y)	Y1=900mm, Y2=1060mm		
Mounting Hole Pitch (X)	1010mm(± 4 mm )		
Mounting hole size	12mm*8mm(± 2 mm )		
Weight	24.5 Kg.		
Cell to Cell Gap	2 mm		
Internal Circuit Connection	Copper Ribbon		
Frame	Silver (more then 15 micron) Anodized Aluminium		
Cells Encapsulant	apsulant EVA (Ethylene Vinyl Acetate )- FC/UFC		
Junction Box (Model Type & current Rating)	pe & Prepotted IP 68 rated with 3 Bypass diodes (4 T /3 D )		
Cable & Connectors	4 sqm. (12AWG) solar cable 1200mmx2 nos black MC4 compatible connectors		
Mechanical Load Condition	ical Load Condition Sustain Heavy wind & snow loads (2400 Pa & 5400 Pa or 550 Kg/m <sup>2</sup>		
	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

### **ECE INDIA ENERGIES PRIVATE LIMITED**

<sup>\*</sup>Due to constant product modifications, company reserves the right to amend the above specifications without prior notice.