## Technical Specifications



Specifications	ECE12CP100
Power (Pm) in Watts (nominal)	100
Open Circuit Voltage (Voc) in Volts	22.68
Short Circuit Current (Isc) in Amps	5.6
Voltage at Max Power (Vmp) in Volts	19.37
Current at Max Power (Imp) in Amps	5.2
Cell Efficiency (%)	18.6
Module Fill Factor (%)	78.8
Module Efficiency (%)	15.6
Maximum System Voltage (Vdc)	1000
Solar Cells per Module (Units) & Module Matrix	36 9*4
No. of Cells per bypass Diode	18
Diode used detail	10A6/6A6
Max Series Fuse Rating in Amps	6

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

### Temp. Coefficient Tc

Tc of Open Circuit Voltage (ß)

Tc of Short Circuit Voltage (α)

Tc of Power (Y)

NOCT

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

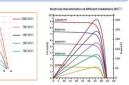
### **Performance Warranty**

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

# Performance Warranty



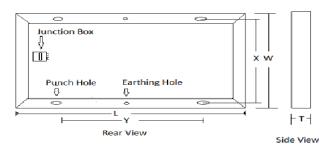




### **Mechanical Details**

Solar Cells Type	Polycrystalline solar cells -5 BB	
	3.2 mm High transmission low iron tempered glass AR coated	
Solar Glass		
Module Length (L)x		
Width(W) x Height(T)	1017mmx670mmx30mm (± 1.5 mm )	
Area	0.67165 SQM	
Mounting Hole Pitch (Y)	500 mm(± 4 mm )	
Mounting Hole Pitch (X)	634 mm(± 4 mm )	
Mounting hole size	8mm*8mm(± 2 mm )	
Weight	7.5 Kg.	
Cell to Cell Gap	2 mm	
Internal Circuit Connection	Copper Ribbon	
Frame	Silver (more then 15 micron) Anodized Aluminium	
Cells Encapsulant	EVA (Ethylene Vinyl Acetate )- FC/UFC	
Junction Box (Model Type & current Rating)	IP 68 rated with 1 Bypass diodes 2T1D	
Cable & Connectors	No	
Mechanical Load Condition	anical Load Condition Sustain Heavy wind & snow loads (2400 Pa & 5400 Pa or 550 Kg/m²	
	Maximum diameter of 24 mm with Hail impact of 83 Km/h	

## **Mounting Diagram Details**



### **Packing Details**

No. Of Modules Per box/Pallet	Weight Of Box/Pallet	Dimensions Of Pallet
		(LxWXH) in mm
5	37.5 kg	690x200x1040

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

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