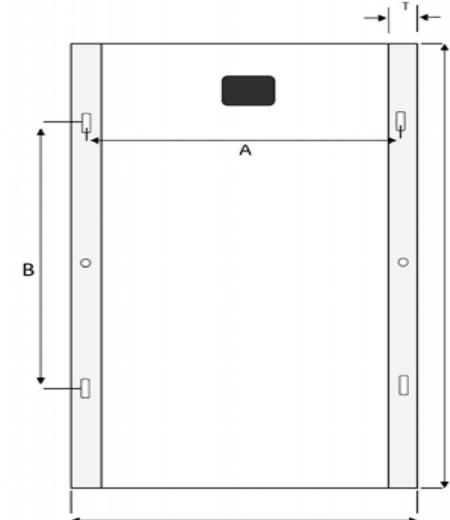


**DIAMOND****Diamond Renewable Solutions Pvt. Ltd.****PHOTOVOLTAIC MODULE DATA SHEET**

Model No.	DRS-12100
<b>TYPICAL ELECTRICAL CHARACTERISTIC</b>	
Nominal Power at STC, (Pmax)	100 Watt
Maximum Voltage at Pmax, (Vmp)	17.8V DC
Maximum Current at Pmax, (Imp)	5.62 A
Open Circuit Voltage, (Voc)	21.8V DC
Short Circuit Current, (Isc)	6.04 A
Temperature Co-efficient of Pmax	-0.43%/K
Temperature Co-efficient of Voc	-0.36%/K
Temperature Coefficient of Isc	+0.06%/K
Max. System Voltage	1000V DC
Operating Temperature	(-40 to (+)85°C
Storage Temperature	(-40 to (+)85°C
NOCT	47°C
Standard Test Condition	Irradiance 1000W/m <sup>2</sup> , Module temperature at 25° C and AM 1.5G Spectrum
<b>CELL CHARACTERISTIC</b>	
Type of Solar Cell	Poly Crystalline, 156x156mm±0.5mm
Number of Cells /Cell Size	36 / 111X156 mm
Arrangement of Cells	9x4
<b>MECHANICAL CHARACTERISTIC</b>	
Frame	Anodized Aluminum frame, Single Channel
Ground Hole	Dia-5mm-2Nos provided at the center Length side of Channels
Drain Holes	Dia-4mm shall be provided at every corner if required
Front Glass	3.2mm Low Iron, Tempered and Textured Glass
Type of Junction Box	3 Terminal Polycarbonate
Protection for Junction Box	With Bypass Diode and -IP65
Size of Junction Box	105X85 mm with Gland
Primary Packing Box Dimension(LWH)	1110x40x660mm
Number of Module per Secondary Box	5 No.
Secondary Packing Box Dimension(LWH)	1120x210x675mm
Weight of Individual Module	8.8 Kgs
Weight of Secondary Box with Module	52 Kgs
<b>TOLERANCE</b>	
Power	±5% under STC
Electrical Parameters	±10% under STC
Physical Dimension	±4mm
Weight	±5%

**Module Diagram:****Mechanical Dimension:** X

Module Dimension in mm			Mounting Dimension in mm		
Length	Y	1105	Length	B	705
Width	X	655	Width	A	617
Channel Thickness	T	35	Pitch Hole		10x7
<b>Module Dimension Tolerance ± 2mm</b>					

**Notes:**

- Performance parameters are under Standard Test Conditions (STC) @ 1000W/m<sup>2</sup>, AM 1.5, 25° C)
- Mounting Hole Dimensions in mm (LxW) @ 4no's on Length (L) side of Channel
- Power Tolerance: ± 5%, 4. Electrical Parameter Tolerance: ± 10% 5. Max. System Voltage (V DC): As per IEC 61215 Ed.2 1000V & UL 1703 600V
- Drain holes of @Ø4mm shall be provided at every corner if required
- Ground Holes @Ø 5mm-2 no's are provided at the center Length (L) side of Channels
- Due to continuous development and product improvement, Company reserves the right to change / alter the specifications without any prior notice