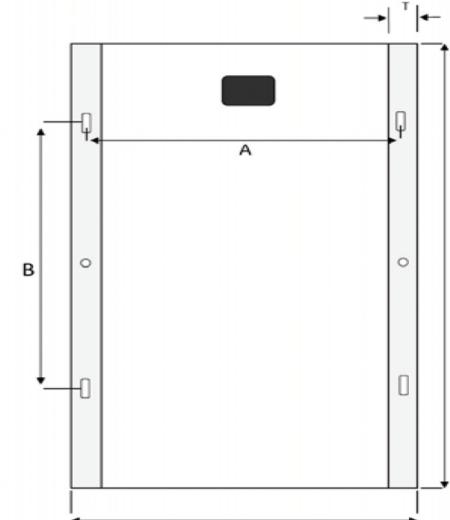


**DIAMOND****Diamond Renewable Solutions Pvt. Ltd.****PHOTOVOLTAIC MODULE DATA SHEET**

Model No.	DRS-1280
TYPICAL ELECTRICAL CHARACTERISTIC	
Nominal Power at STC, (Pmax)	80 Watt
Maximum Voltage at Pmax, (Vmp)	17.80V DC
Maximum Current at Pmax, (Imp)	4.50 A
Open Circuit Voltage, (Voc)	21.80V DC
Short Circuit Current, (Isc)	5.10 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 ² , Module temperature at 25° C and AM 1.5G Spectrum
CELL CHARACTERISTIC	
Type of Solar Cell	Poly Crystalline, 156x156mm±0.5mm
Number of Cells /Cell Size	36 / 83X156 mm
Arrangement of Cells	9x4
MECHANICAL CHARACTERISTIC	
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	95X76 mm
Primary Packing Box Dimension(LWH)	870x40x675mm
Number of Module per Secondary Box	5 No.
Secondary Packing Box Dimension(LWH)	880x210x695mm
Weight of Individual Module	6.5 Kgs
Weight of Secondary Box with Module	42Kgs
TOLERANCE	
Power	±5% under STC
Electrical Parameters	±10% under STC
Physical Dimension	±4mm
Weight	±5%

Module Diagram:**Mechanical Dimension:**

Module Dimension in mm			Mounting Dimension in mm		
Length	Y	862	Length	B	563
Width	X	655	Width	A	617
Channel Thickness	T	35	Pitch Hole		10x7
Module Dimension Tolerance ± 2mm					

Notes:

- *Performance parameters are under Standard Test Conditions (STC) @ 1000W/m², AM 1.5, 25° C)
2. Mounting Hole Dimensions in mm (LxW) @ 4no's on Length (L) side of Channel
3. Power Tolerance: ± 5%, 4. Electrical Parameter Tolerance: ± 10% 5. Max. System Voltage (V DC): As per IEC 61215 Ed.2 1000V & UL 1703 600V
6. Drain holes of @Ø4mm shall be provided at every corner if required
7. Ground Holes @Ø 5mm-2 no's are provided at the center Length (L) side of Channels
8. Due to continuous development and product improvement, Company reserves the right to change / alter the specifications without any prior notice