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Solar Panel Guide Specification Data Sheet

Patanjali Renewable Energy Pvt Ltd.

PREL 300-350W

PREL 320W

Also available on the web at
EnergyPal.com/patanjali-renewable-energy-pvt-ltd-solar-panels/prel-320w

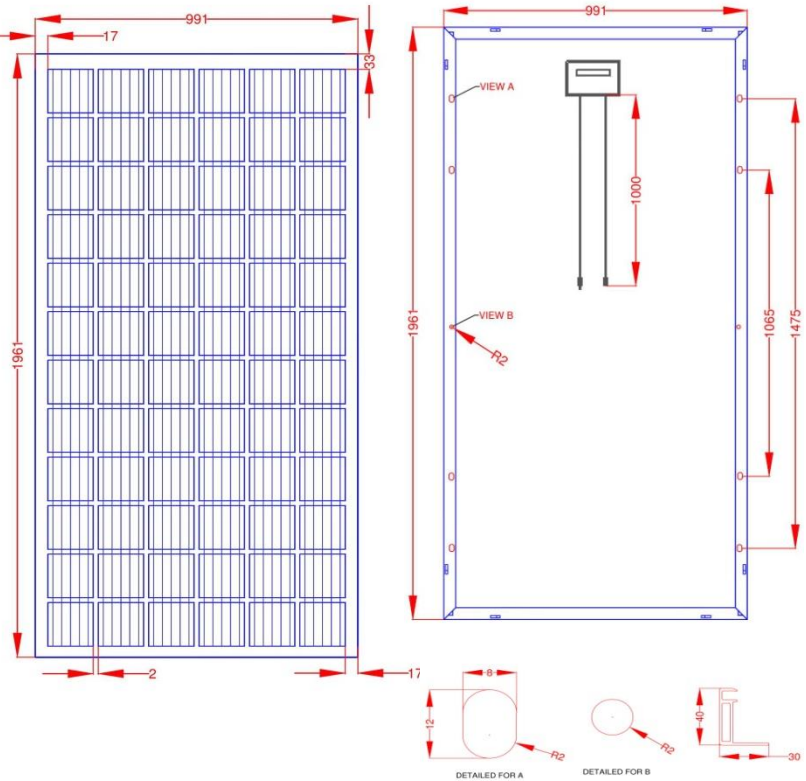


POLY72 CELLS MODULE

Model	PREL 300W	PREL 305W	PREL 310W	PREL 315W	PREL 320W	PREL 325W	PREL 330W	PREL 335W	PREL 340W	PREL 350W
Cell Type	5 BB	5 BB	5 BB	5 BB	5 BB	5 BB	5 BB	5 BB	5 BB	5 BB
MAXIMUM POWER(Pmax) Wp	300	305	310	315	320	325	330	335	340	350
MAXIMUM POWER VOLTAGE (Vmp) V	36.04	36.14	36.39	36.85	37.09	37.32	37.46	37.56	37.68	37.82
MAXIMUM POWER CURRENT(Imp) A	8.34	8.44	8.52	8.55	8.63	8.71	8.81	8.92	9.03	9.26
OPEN CIRCUIT VOLTAGE(Voc) V	45.35	45.44	45.69	45.75	46.09	46.32	46.46	46.65	46.79	46.99
SHORT CIRCUIT CURRENT(Isc) A	8.83	8.92	8.98	9.11	9.17	9.23	9.26	9.35	9.49	9.75
MODULE EFFICIENCY (η) %	15.47%	15.70%	15.95%	16.21%	16.47%	16.73%	16.98%	17.24%	17.51%	18.02%

GENERAL DATA

Solar Cells	72 Polycrystalline
Cell Orientation	72 Cells (12 x 6)
Front Glass	3.2mm toughened glass
Back sheet	White
Frame	Anodized Aluminum Alloy
Junction Box	IP68, 3 Diode
Cable & Connectors	4mm2 AWG 1000 V/MC 4 connectors



MAXIMUM RATINGS

Operating Temperature	- 40°C to +85°C
Maximum System Voltage	1000 V/1500 V
Maximum Series Fuse Rating	20 amp
Application Classification	Class A
Power Tolerance	0 to +4.99
Under Standard Test Condition (STC) of Irradiance of 1000 w/m2, Spectrum AM 1.5 and Cell Temperature	

TEMPERATURE RATINGS

Nominal Module Operating Temperature	45.7°C (±2°C)
Temperature Coefficient of PMPP	-0.40 %/°C
Temperature Coefficient of VOC	-0.27 %/°C
Temperature Coefficient of ISC	0.024 %/°C

*The temperature coefficients stated are linear values`

MECHANICAL DATA

Dimensions (MM)	1961 X 991 x 40
Weight (Kgs)	22 ± 0.5

WARRANTY

