

Harnessing High Efficiency

- › Acid/alkaline texturised solar cells with fine silver lines
- › Fully covered back surface field and optimised anti reflective coating on cells
- › One Side textured, tempered glass to increase light absorption & efficiency
- › Absolute positive tolerance in power (-0%) / (+ 3%)

5MWp Solar PV power plant in Rajasthan



1MWp rooftop system at Thyagraja Stadium, New Delhi, India

Redefining Reliability & Performance

- › Maximum system voltage of 1000 V
- › High corrosion resistant frame with double sided polyurethane tape for frame fixing ensuring high tensile structure
- › No water freezing or warpage
- › High performance even in extreme temperatures (-40°C to + 85°C)
- › Capable of withstanding High Velocity Winds (2400Pa) and Heavy Snow Loads (5400Pa)

50kWp rooftop system, Chandigarh, Punjab, India



Strengthening Safety Standards

- › Weather proof junction box with bounced clips
- › Highly reliable bypass diodes
- › Connectors equipped with lock mechanism
- › High Quality insulation for cables

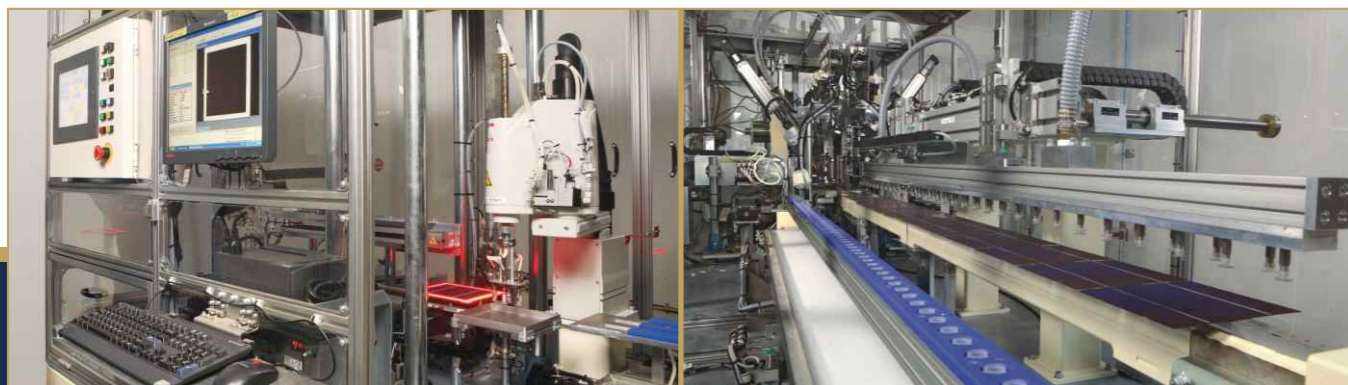


10kWp rooftop system in Germany

Continuing a Tradition in Quality

- › All Modules are manufactured in a state-of-the-art ISO 9001:2008 certified facility in India
- › Products are IEC 61215 and EN 61730 certified

Automated state-of-the-art processing equipment



Mono Crystalline Solar Module Range (135 to 280 Wp)	Module Type	RS 12135-S6	RS 185-S6	RS 205-S6	RS 230 S6	RS 24280-S6
	Electrical Parameters at STC*					
	Nominal Power, P _{max} (W)	135	185	205	230	280
	Maximum Power Voltage, V _{mp} (V)	17.6	23.6	26.5	29.53	35.5
	Maximum Power Current, I _{mp} (A)	7.7	7.84	7.75	7.8	7.9
	Open Circuit Voltage, V _{oc} (V)	22.5	30	33.7	37.5	45
	Short Circuit Current, I _{sc} (A)	7.95	8.2	8.36	8.2	8.4
	Mechanical Parameters					
	Solar Cell type & size	Mono crystalline silicon & 156mm x 156mm pseudo square				
	No. of cells	36	48	54	60	72
Overall Dimensions (mm)	1503 x 679 x43	1344 x 997 x43	1503 x 997 x43	1662 x 997 x43	1980 x 997 x43	
Weight (kg)	12.4	15.2	16.9	18.6	26.1	
Junction box	IP 65 Protected 4 contact rail					
Output terminal cables	IP 67 Protected, 4mm ² , XLPO insulated 1 mtr length					
Terminal connectors	MC4, UV resistant self locking, IP 67					
Bypass diodes	2 nos of SB1540	3 nos of SB1540				
Front glass	3.2mm thick				4mm thick	
Back sheet	Fluoropolymer, PET based laminate					
Frame	Robust anodised Aluminium alloy 6063					

Multi Crystalline Solar Module Range (3.3 to 260 Wp)	Module Type	RS 12125	RS 175	RS 190	RS 215	RS 24260
	Electrical Parameters at STC*					
	Nominal Power, P _{max} (W)	125	175	190	215	260
	Maximum Power Voltage, V _{mp} (V)	17.4	23.6	26.3	29.3	34.8
	Maximum Power Current, I _{mp} (A)	7.2	7.42	7.23	7.35	7.49
	Open Circuit Voltage, V _{oc} (V)	21.6	29.1	32.5	36.2	44
	Short Circuit Current, I _{sc} (A)	7.95	8.2	8.1	8.1	8.2
	Mechanical Parameters					
	Solar Cell type & size	Multi crystalline silicon & 156mmx156mm				
	No. of cells	36	48	54	60	72
Overall Dimensions (mm)	1503 x 679 x 43	1344 x 997 x 43	1503 x 997 x 43	1662 x 997 x 43	1980 x 997 x 43	
Weight (kg)	12.4	15.2	16.9	18.6	26.1	
Junction box	IP 65 Protected 4 contact rail					
Output terminal cables	IP 67 Protected, 4mm ² , XLPO insulated 1 mtr length					
Terminal connectors	MC4, UV resistant self locking, IP 67					
Bypass diodes	2 nos of SB1240	3 nos of SB1240				
Front glass	3.2mm thick				4mm thick	
Back sheet	Fluoropolymer, PET based laminate					
Frame	Robust anodised Aluminium alloy 6063					

*STC is 100mW/cm², Am 1.5G @ 25°C
Modules of various custom sizes are also available.

Thermal Characteristics

Module Type	Mono Crystalline	Multi Crystalline
NOCT	47±2°C	47±2°C
Temperature Coefficient of P _{max}	-0.49%/K	-0.5 % / K
Temperature Coefficient of V _{oc}	-0.33%/K	-0.35 % / K
Temperature Coefficient of I _{sc}	+0.03%/K	+0.07 % / K