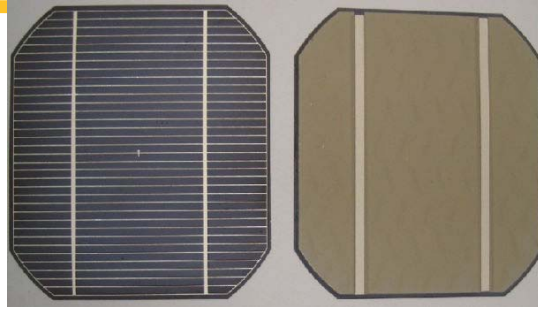


SPV Cells



- **Technical Characteristics**
- Base material : Mono/ Poly crystalline CZ silicon wafer (p-type)
- Junction : Phosphorous diffused (n-on-p)
- Size
- Side to side : 125 ± 1 mm
- Corner to corner: 165 ± 1 mm / 150 ± 1 mm
- Thickness : 200 ± 25 microns
- Shape : Pseudo Square
- Surface : Textured
- **Metallization**
- Front : Screen printed Silver, Silicon Nitride coated.
- Back : Screen printed Silver-Aluminium bus bar pads / Aluminum (BSF)

Parameter	Type E	Type F	Type G	Type H	Type I
Power, P_{max} (W)	2.1	2.2	2.3	2.4	2.5
Efficiency (%)	13.5	14.2	14.8	15.5	16.1
Operating current at 470 mV, (A)	4.50	4.75	4.90	5.10	5.30
Open circuit voltage, (mV)	605	610	610	610	610
Short-circuit current, (A)	4.90	5.00	5.10	5.25	5.40

- Note: The values referred above are at STC 1000 W/ sq. m Solar Irradiance, 25 deg C Cell temperature and Air Mass 1.5.



SPV Modules

Technical Characteristics

Configuration	: Single glass laminated with 36 or 72 Solar PV Cells in series
Module Frame Material	: Anodized Aluminum
Glass	: High Transmission toughened glass
Lamination	: EVA-Cell-EVA-Tedlar
Junction Box	: Weather-resistant with option of snap-on-connectors

Parameter [Unit]	Module Type										
	L1210	L1218	L1235	L1270		L12100	L12120	L24150			
Peak Power [W _p]	12	20	40	75	80	100	120	150	160	165	170
Open Circuit Voltage, [V]	21	21	21	21	21	22	22	42	42	42	42
Short Circuit Current, [A]	0.8	1.2	2.4	4.8	4.9	7.5	7.5	4.8	4.9	4.9	5.0
Voltage at max power, [V]	16.4	16.4	17.0	17.0	17.5	17.0	17.0	35.0	35.0	35.0	35.0
Cell Efficiency [%]	12.9	12.9	13.3	13.5	14.4	11.9	10.2	13.5	14.4	14.8	15.3
Module Efficiency [%]	9.1	9.8	10.3	11.8	12.6	13.7	12.1	11.9	12.7	13.1	13.5
Peak Power temp coefficient [%/deg C]	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
Tolerance of P _{max} [%]	±5	±5	±5	±5	±5	±5	±5	±5	±5	±5	±5
Max System Voltage [V]	600	600	600	600	600	1000	1000	1000	1000	1000	1000
Weight [kg]	1.5	2.2	4.2	7.5	7.5	12.0	12.0	15.0	15.0	15.0	15.0

Note: The values referred above are at STC 1000 W/ sq. m Solar Irradiance, 25 deg C Module temperature and Air Mass 1.5.



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