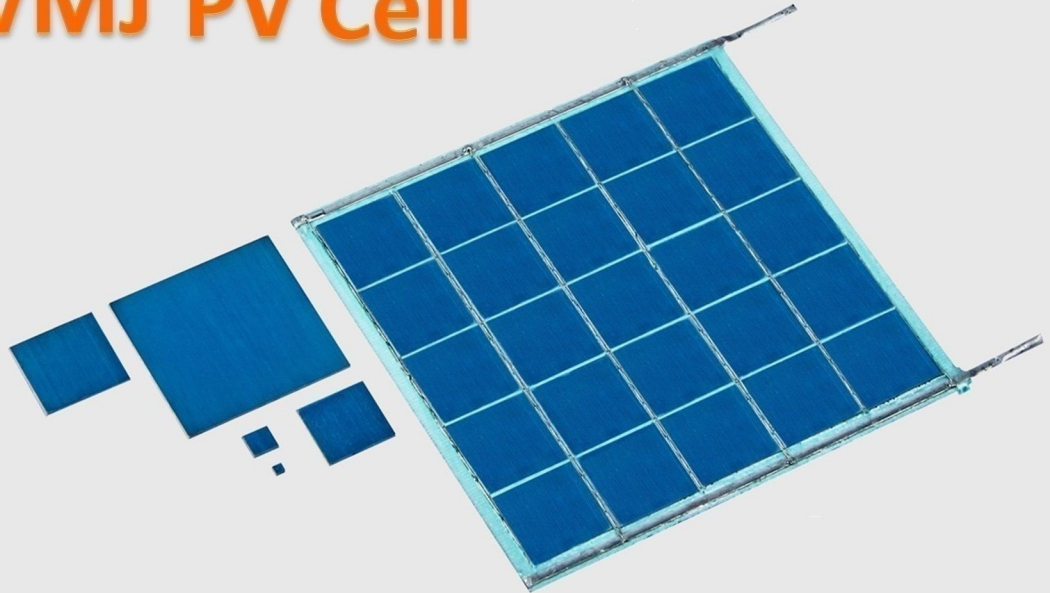


MIH[®] VMJ PV Cell



Features

- High efficiency Si-based PV cell
- High voltage density with low current
- Size/voltage/shape customization
- High concentration
- High temperature durability
- Optimal efficiency with 9xx nm lasers

Laser Data

Part Number	Length (mm)	Width (mm)	Height (mm)	Input Power (mW)	Power Density (W/cm ²)	Vmax (V)	I _{max} (mA)	P _{max} (mW)	Efficiency (%)
5S0101.4	1.0	1.0	0.4	13.2	1.3	2.80	1.90	5.32	41.2%
5S0303.4	3.0	3.0	0.4	123.1	1.4	8.70	5.80	50.46	40.7%
5S1010.4	10.0	10.0	0.4	1,463.3	1.5	29.21	20.29	592.67	40.5%

Performance data measured with 915 nm & 975 nm laser sources at 25°C cell temperature.
Efficiency will vary depending on level of light uniformity and collimation, as well as cell temperature.

Solar Data

Part Number	Length (mm)	Width (mm)	Height (mm)	Input Power (W)	Power Density (W/cm ²)	Vmax (V)	I _{max} (A)	P _{max} (W)	Efficiency (%)
5S0303.4	3.0	3.0	0.4	2.7	30.0	9.50	0.07	0.67	24.6%
5S1010.4	10.0	10.0	0.4	30.0	30.0	31.82	0.22	7.00	23.7%
5S2020.4	20.0	20.0	0.4	120.0	30.0	58.85	0.44	25.89	21.6%

Performance data is based on flash test results under AM1.5 (full solar spectrum) at 25°C cell temperature.



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