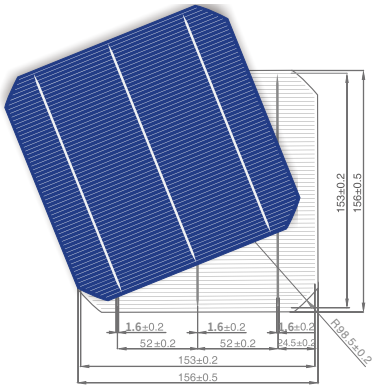
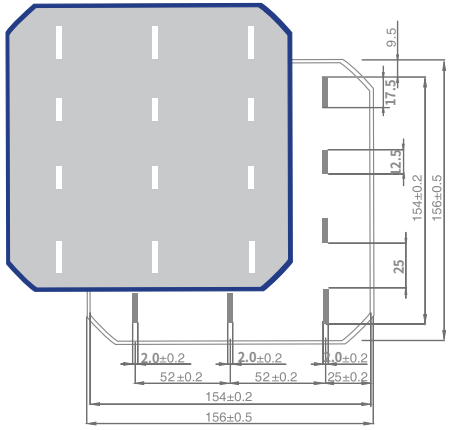
NiceSun
your energy

M6'3BB

Mono 6" (R220) Monocrystalline silicon solar cells





MECHANICAL DATA AND DESIGN

Format	156mm × 156mm ± 0.5mm
Thickness	200 μ m ± 20 μ m
Front(−)	1.6mm bus bars(silver), blue anti-reflecting coating(silicon nitride)
Back(+)	2.0mm wide soldering pads(silver) back surface field(aluminium)

TEMPERATURE COEFFICIENTS

TkVoltage	−0.241%/K
TkCurrent	+0.033%/K
TkPower	−0.370%/K

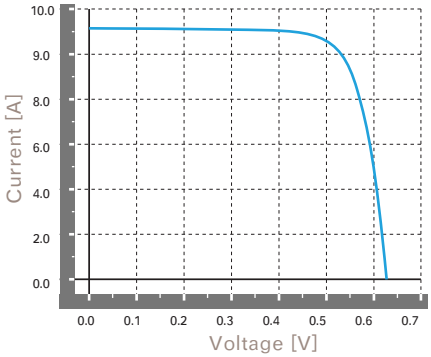
No.	Efficiency(%)	Pmpp(W)	Umpp(V)	Impp(A)	Uoc(V)	Isc(A)	FF(%)
10	19.00–20.00	4.54	0.543	8.361	0.643	8.900	79.33
09	18.80–19.00	4.49	0.539	8.330	0.638	8.896	79.11
08	18.60–18.80	4.45	0.537	8.287	0.636	8.867	78.91
07	18.40–18.60	4.40	0.536	8.209	0.635	8.834	78.44
06	18.20–18.40	4.35	0.533	8.161	0.633	8.807	78.03
05	18.00–18.20	4.30	0.530	8.113	0.632	8.774	78.54
04	17.80–18.00	4.26	0.527	8.084	0.631	8.762	78.05
03	17.60–17.80	4.21	0.523	8.050	0.630	8.743	76.44
02	17.40–17.60	4.16	0.520	8.000	0.628	8.719	75.97
01	17.20–17.40	4.11	0.518	7.934	0.626	8.667	75.75

INTENSITY DEPENDENCE

Intensity[W/m²]	Isc	Voc*	Pmpp
1000	1.0	1.000	1.000
900	0.9	0.996	0.898
500	0.5	0.968	0.490
300	0.3	0.940	0.287
200	0.2	0.915	0.186

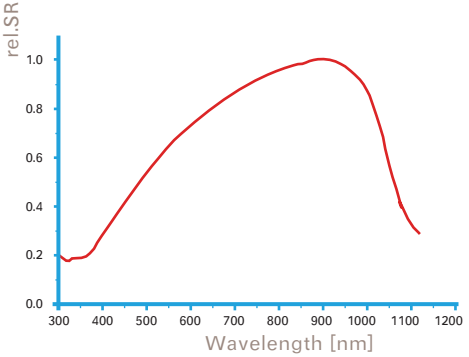
*Ratio of Voc(Isc) at reduced intensity to Voc(Isc) at 1000 W/m²

IV CURVE



*calibrated against fraunhofer ISE freiburg

SPECTRAL RESPONSE



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