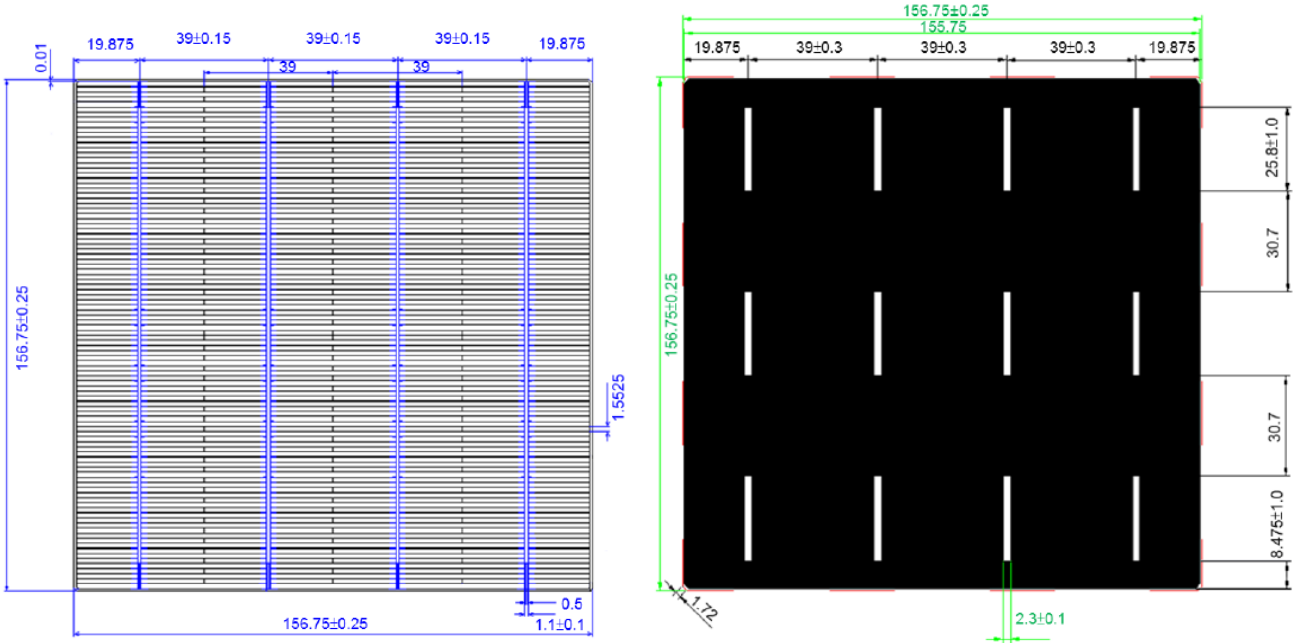


PHYSICAL CHARACTERISTICS



Color	True Steel Forest Green Lavender Golden Brown Tile Red
Dimension	156.75 mm x 156.75 mm +/- 0.25 mm
Thickness (si)	200 um +/- 20um
Front	Blue silicon nitride anti-reflection coatings Four Silver bus-bars (1.1+/-0.1mm)
Back	Full-surface aluminum BSF, 4X3 soldering pads 2.3 +/- 0.1 mm wide Silver / Aluminum bus-bar

TYPICAL ELECTRICAL CHARACTERISTICS

Efficiency Code		1840	1820	1800	1780	1760	1740
Efficiency Range	[%]	18.5-18.3	18.3-18.1	18.1-17.9	17.9-17.7	17.7-17.5	17.5-17.3
Average Power	[W]	4.52	4.47	4.42	4.37	4.32	4.27
Power Range	[W]	4.54-4.49	4.49-4.44	4.44-4.39	4.39-4.34	4.34-4.30	4.30-4.25
Short Circuit Current	I _{sc} [A]	8.89-8.86	8.86-8.83	8.83-8.79	8.79-8.75	8.75-8.71	8.71-8.67
Open Circuit Voltage	V _{oc} [mV]	629-627	627-625	625-623	623-620	620-618	618-616
Maximum Power Current	I _{MPP} [A]	8.42-8.37	8.37-8.32	8.32-8.27	8.27-8.22	8.22-8.19	8.19-8.15
Maximum Power Voltage	V _{MPP} [mV]	539-536	536-534	534-531	531-528	528-525	525-521

Efficiency Code		1720	1700	1680	1660	1640
Efficiency Range	[%]	17.3-17.1	17.1-16.9	16.9-16.7	16.7-16.5	16.5-16.3
Average Power	[W]	4.22	4.17	4.12	4.07	4.03
Power Range	[W]	4.25-4.20	4.20-4.15	4.15-4.10	4.10-4.05	4.05-4.00
Short Circuit Current	I _{sc} [A]	8.67-8.64	8.64-8.60	8.60-8.56	8.56-8.53	8.53-8.49
Open Circuit Voltage	V _{oc} [mV]	616-614	614-611	611-609	609-607	607-605
Maximum Power Current	I _{MPP} [A]	8.15-8.10	8.10-8.04	8.04-7.99	7.99-7.96	7.96-7.92
Maximum Power Voltage	V _{MPP} [mV]	521-519	519-516	516-513	513-509	509-505

*The above data are presently measured average. Data calibrated by Fraunhofer ISE Freiburg STC: 1000W/m², AM1.5, 25°C

POWER RANGE AT CELL LEVEL

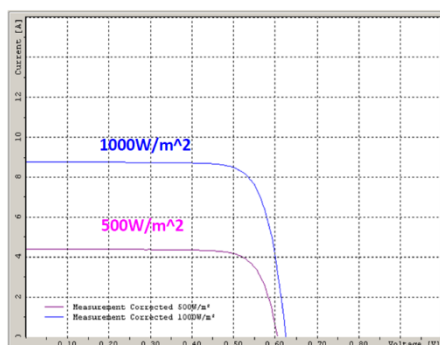
Color	True Steel	Forest Green (a.k.a. Army Green)	Lavender
Efficiency range(%)	18.40 ~ 17.40	18.40 ~ 17.40	17.20 ~ 16.40
Power range(W)	4.52 ~ 4.27	4.52 ~ 4.27	4.22 ~ 4.03
Power in majority	4.39	4.39	4.12

Color	Golden Brown	Tile Red
Efficiency range(%)	17.20 ~ 16.40	17.20 ~ 16.40
Power range(W)	4.22 ~ 4.03	4.22 ~ 4.03
Power in majority	4.12	4.12

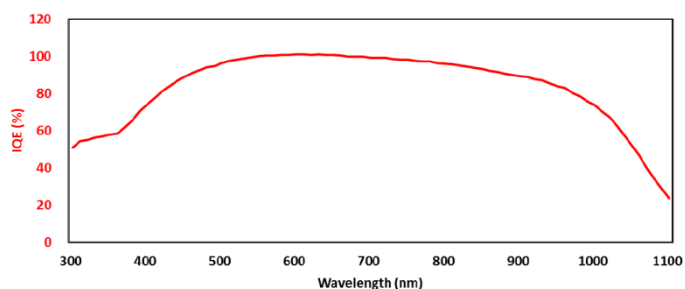
TYPICAL TEMPERATURE COEFFICIENTS

Current temperature coefficient α(I _{sc})	0.05%/°C
Voltage temperature coefficient β(V _{oc})	-0.32%/°C
Power temperature coefficient γ(P _{max})	-0.37%/°C

I-V CURVE



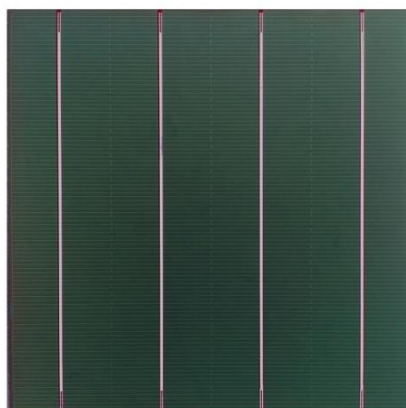
SPECTRAL RESPONSE



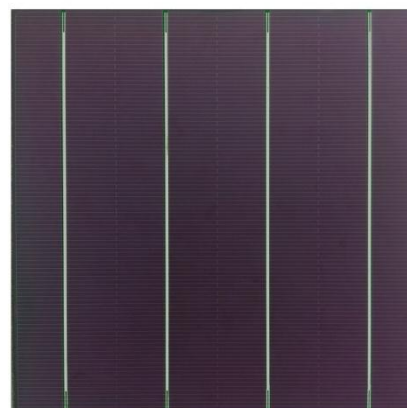
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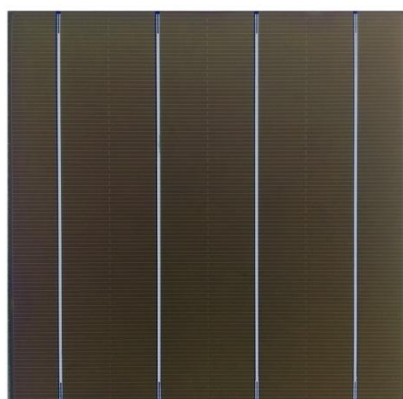
TRUE STEEL



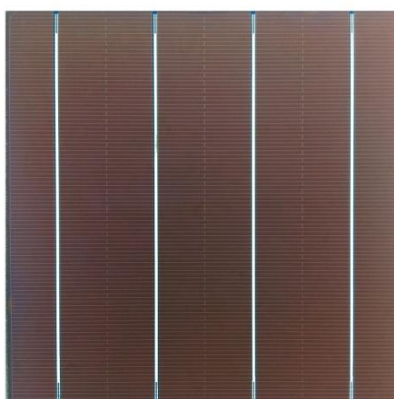
FOREST GREEN



LAVENDER



GOLDEN BROWN



TILE RED

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