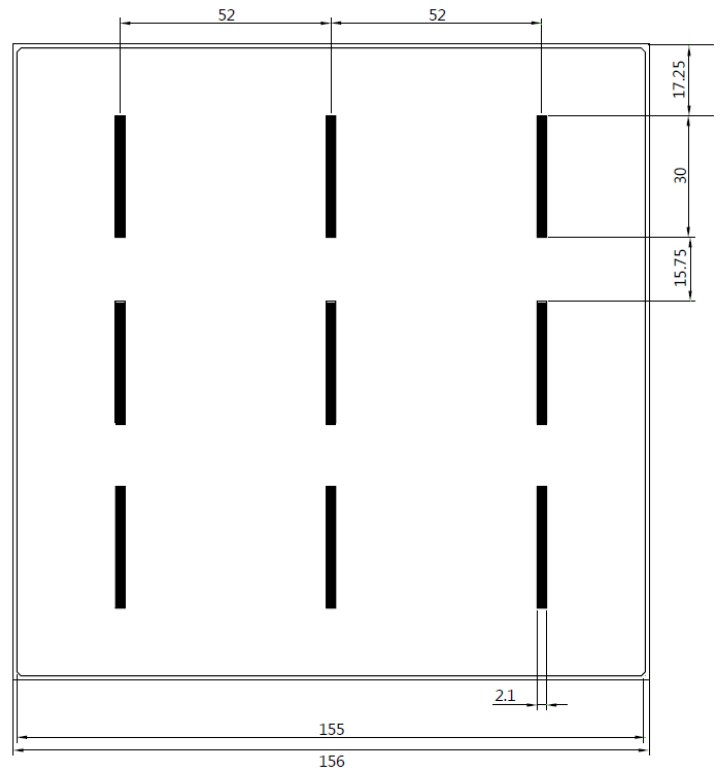
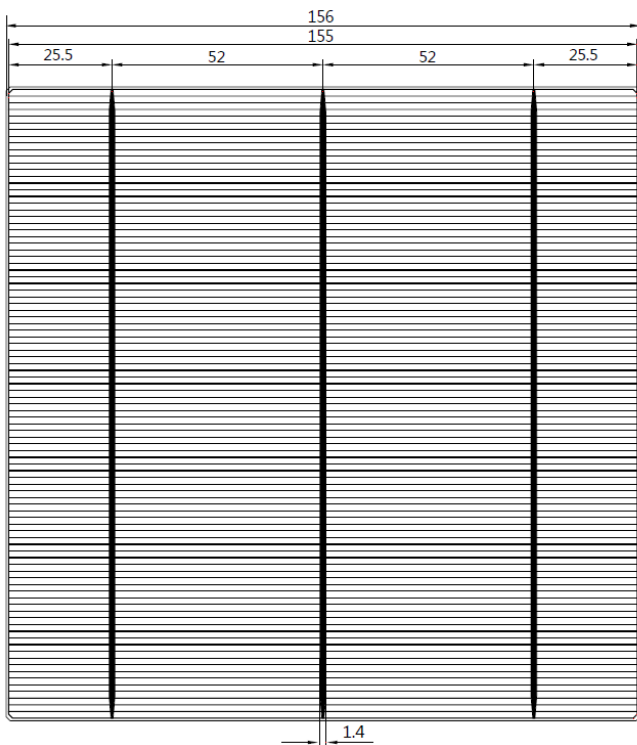


PHYSICAL CHARACTERISTICS

Color	Stone Elegance Emerald Green Disco Pink Sparkling Gold Metallic Gold Diamond Blue
Dimension	156 mm x 156 mm +/- 0.5 mm
Thickness (si)	200 um +/- 20um
Front	Alkaline texture surface with SINx anti-reflective coating 3BB in 1.55mm width Distance between bus bars: 52 mm
Back	Aluminum back surface field, 3 busbar 3BB in 2mm width Distance between bus bars: 52 mm



TYPICAL ELECTRICAL CHARACTERISTICS

Efficiency Code		1780	1760	1740	1720	1700	1680	1660
Efficiency Range	[%]	17.9-17.7	17.7-17.5	17.5-17.3	17.3-17.1	17.1-16.9	16.9-16.7	16.7-16.5
Average Power	[W]	4.33	4.28	4.23	4.19	4.14	4.09	4.04
Power Range	[W]	4.36-4.31	4.31-4.26	4.26-4.21	4.21-4.16	4.16-4.11	4.11-4.06	4.06-4.02
Short Circuit Current	I _{sc} [A]	8.75-8.70	8.70-8.65	8.65-8.60	8.60-8.55	8.55-8.48	8.48-8.42	8.42-8.35
Open Circuit Voltage	V _{oc} [mV]	633-631	631-629	629-627	627-625	625-623	623-621	621-619
Maximum Power Current	I _{MPP} [A]	8.29-8.22	8.22-8.15	8.15-8.08	8.08-8.03	8.03-7.98	7.98-7.88	7.88-7.82
Maximum Power Voltage	V _{MPP} [mV]	527-525	525-523	523-521	521-519	519-517	517-515	515-513

Efficiency Code		1640	1620	1600	1580	1560	1540	1520
Efficiency Range	[%]	16.5-16.3	16.3-16.1	16.1-15.9	15.9-15.7	15.7-15.5	15.5-15.3	15.3-15.1
Average Power	[W]	3.99	3.94	3.89	3.85	3.80	3.75	3.70
Power Range	[W]	4.02-3.96	3.96-3.91	3.91-3.87	3.87-3.82	3.82-3.77	3.77-3.72	3.72-3.67
Short Circuit Current	I _{sc} [A]	8.35-8.29	8.29-8.22	8.26-8.21	8.21-8.13	8.13-8.06	8.06-7.99	7.99-7.92
Open Circuit Voltage	V _{oc} [mV]	619-617	617-615	612-510	610-609	609-607	607-605	605-603
Maximum Power Current	I _{MPP} [A]	7.82-7.78	7.78-7.68	7.77-7.71	7.71-7.63	7.63-7.57	7.57-7.50	7.50-7.43
Maximum Power Voltage	V _{MPP} [mV]	513-511	511-509	503-501	501-500	500-498	498-496	496-494

Efficiency Code		1500	1480	1460	1440
Efficiency Range	[%]	15.1-14.9	14.9-14.7	14.7-14.5	14.5-14.3
Average Power	[W]	3.65	3.60	3.55	3.50
Power Range	[W]	3.67-3.63	3.63-3.58	3.58-3.53	3.53-3.48
Short Circuit Current	I _{sc} [A]	7.92-7.86	7.86-7.79	7.79-7.71	7.71-7.64
Open Circuit Voltage	V _{oc} [mV]	603-601	601-599	599-597	597-595
Maximum Power Current	I _{MPP} [A]	7.43-7.38	7.38-7.30	7.30-7.22	7.22-7.15
Maximum Power Voltage	V _{MPP} [mV]	494-492	492-490	490-488	488-486

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

All figures bear ±1.5% tolerance.

POWER RANGE AT CELL LEVEL

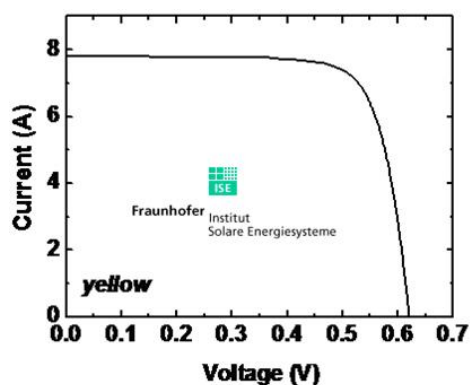
Color	Stone Elegance	Emerald Green (a.k.a. Rebel Green)	Disco Pink
Efficiency range(%)	17.80-15.00	17.60-15.20	17.60-15.00
Power range(W)	4.33-3.65	4.28-3.70	4.28-3.65
Power in majority	3.99	4.04	3.94

Color	Diamond Blue	Sparkling Gold	Metallic Gold
Efficiency range(%)	17.20-15.00	17.00-15.20	16.60-14.40
Power range(W)	4.19-3.65	4.14-3.70	4.04-3.50
Power in majority	4.14	3.85	3.75

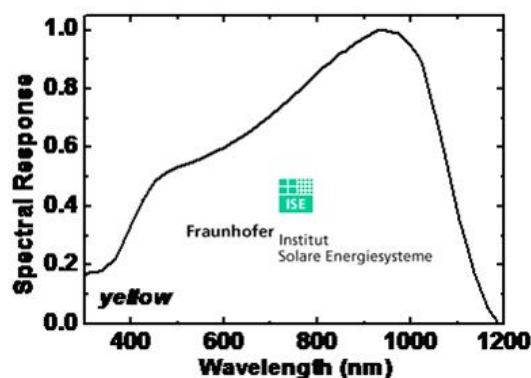
TYPICAL TEMPERATURE COEFFICIENTS

Current temperature coefficient $\alpha(I_{sc})$ 0.05%/°C
 Voltage temperature coefficient $\beta(V_{oc})$ -0.35%/°C
 Power temperature coefficient $\gamma(P_{max})$ -0.40%/°C

I-V CURVE



SPECTRAL RESPONSE



Note: LOF Solar Corp reserves the rights of final interpretation and revision of this datasheet.



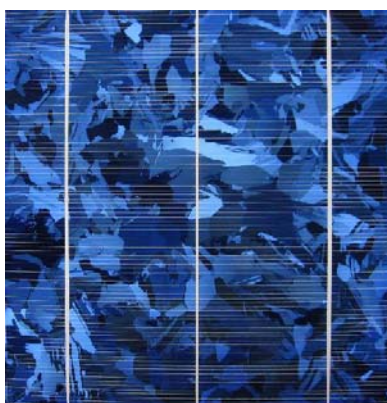
Stone Elegance



Emerald Green



Disco Pink



Diamond Blue



Sparkling Gold



Metallic Gold

Note: LOF Solar Corp reserves the rights of final interpretation and revision of this datasheet.

