

BASIC INFORMATION

Format	156.0×156.0mm±0.5mm
Diameter	219.2±0.5mm
Thickness	220±20μm
Weight	12.0±0.5g
Front(-)	1.1mm bus bars (silver) .
	Blue anti-reflecting coating
	(silicon nitride).
Back(+)	2.1mm wide soldering pads(silver),
	back surface field(aluminium).

ELECTRICAL PARAMETERS

Efficiency Ncell(%)	Maximum power Pmpp(w)	Peak voltage Vmp(V)	Peak current Imp(A)	Open-circuit voltage Voc(V)	Short-circuit current Isc(A)
≥18.7	4.55	0.541	8.410	0.641	8.889
18.6-18.7	4.53	0.540	8.389	0.641	8.861
18.5-18.6	4.50	0.540	8.333	0.640	8.827
18.4-18.5	4.48	0.539	8.312	0.640	8.805
18.3-18.4	4.45	0.539	8.256	0.639	8.776
18.2-18.3	4.43	0.538	8.234	0.638	8.759
18.1-18.2	4.40	0.537	8.194	0.637	8.726
18.0-18.1	4.38	0.536	8.172	0.636	8.717
17.9-18.0	4.36	0.535	8.150	0.635	8.697
17.8-17.9	4.33	0.534	8.109	0.634	8.667

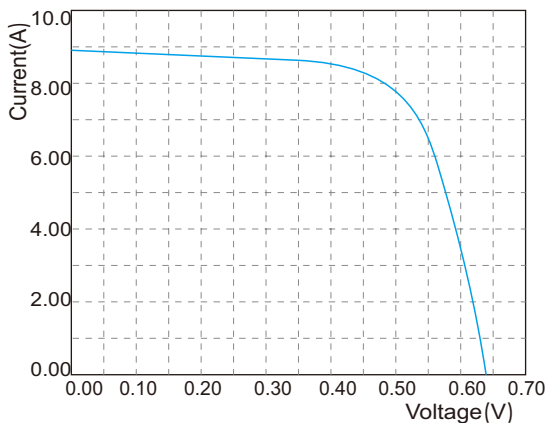
TEMPERATURE CHARACTERISTICS

NAME	UNIT	VALUE
α_{Isc}	[%/°C]	0.057
β_{Voc}	[%/°C]	-0.308
γ_{Pmax}	[%/°C]	-0.406

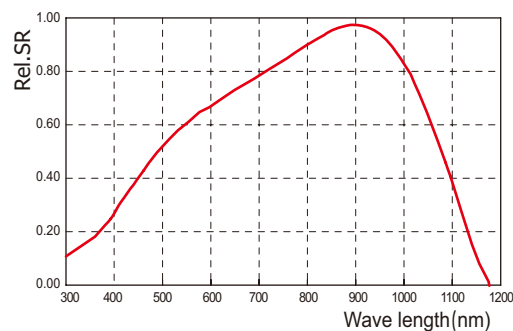
INTENSITY DEPENDENCE

Irradiance [W/m ²]	Open-circuit voltage [%]	Short-circuit current [%]	Maximum power [%]
1000	100.0	100.0	100.0
800	99.00	79.99	80.18
600	97.70	59.90	59.85
400	95.96	39.87	39.95
200	92.83	19.94	19.13

I-V CURVE



SPECTRAL RESPONSE



QUALITY ASSURANCE



ISO 9001



ISO 14001



Fraunhofer