

### BASIC INFORMATION

Format	156.75 × 156.75mm ± 0.5mm
Diameter	210.0 ± 0.5mm
Thickness	220 ± 20μm
Weight	12.3 ± 0.5g
Front(-)	1.1mm bus bars (silver) .
	Blue anti-reflecting coating (silicon nitride).
Back(+)	1.7mm 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)
≥20.4	4.98	0.544	9.154	0.644	9.642
20.3-20.4	4.96	0.544	9.118	0.644	9.615
20.2-20.3	4.94	0.543	9.088	0.643	9.591
20.1-20.2	4.91	0.543	9.042	0.643	9.545
20.0-20.1	4.89	0.542	9.022	0.642	9.521
19.9-20.0	4.86	0.542	8.967	0.642	9.474
19.8-19.9	4.84	0.541	8.946	0.641	9.450
19.7-19.8	4.81	0.541	8.891	0.641	9.403
19.6-19.7	4.79	0.540	8.870	0.640	9.379

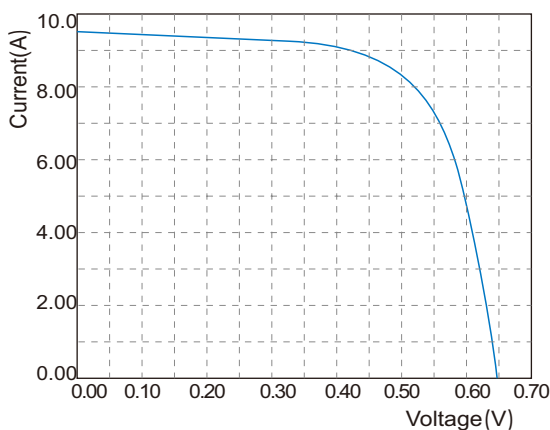
### TEMPERATURE CHARACTERISTICS

NAME	UNIT	VALUE
$\alpha_{Isc}$	[%/°C]	0.043
$\beta_{Voc}$	[%/°C]	-0.320
$\gamma_{Pmax}$	[%/°C]	-0.420

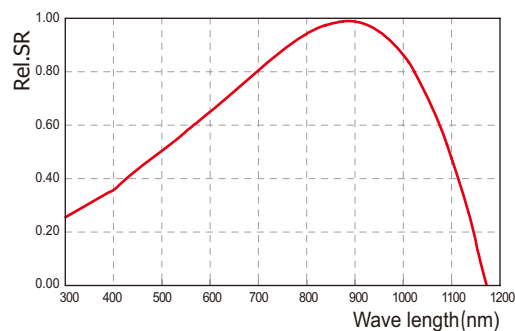
### INTENSITY DEPENDENCE

Irradiance [W/m <sup>2</sup> ]	Open-circuit voltage [%]	Short-circuit current [%]	Maximum power [%]
1000	100.0	100.0	100.0
800	99.10	80.08	80.24
600	97.84	60.00	59.99
400	96.22	40.00	39.68
200	93.32	19.98	19.30

### I-V CURVE



### SPECTRAL RESPONSE



### QUALITY ASSURANCE



ISO 9001



ISO 14001



Fraunhofer