

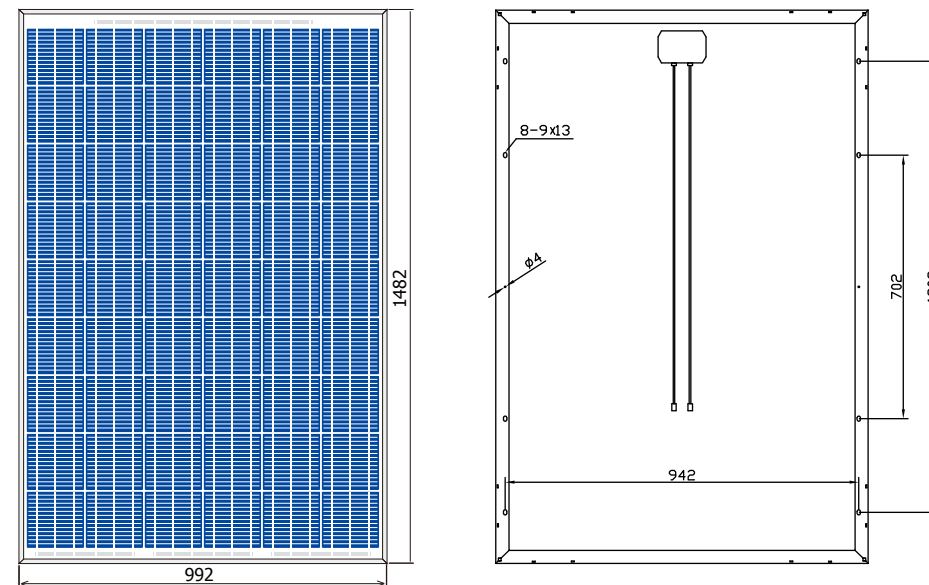
# TECHNICAL DATA SHEET

## SP654-190, SP654-200



### Technical Data

Type	SP654-190, SP654-200
Type of Solar Cell	Poly-crystalline, 156mm×156mm
Number of Cells	54 pcs
Size of module	1482×992×35mm ( 156×156mm cell)
Module, Weight	15.5 kg
Connector / Cross-Section	Cixi Renhe, TOP
Cables, Length (+/-)	900 mm
Front Cover Glass	Safety Glass
Front Cover Glass, Thickness	3.2 mm
Frame	Anodized Aluminium



### Electrical Data

Maximum Power	$P_{MPP\ STC}$	190 W	200 W
Power Tolerance	$\Delta_{STC}$	+3%	+3%
Maximum Power Voltage	$U_{MPP\ STC}$	26.0 V	26.5 V
Maximum Power Current	$I_{MPP\ STC}$	7.31 A	7.55 A
Open Circuit Voltage	$U_{OC\ STC}$	33.02 V	33.66 V
Short Circuit Current	$I_{SC\ STC}$	7.81 A	8.08 A
Module Efficiency	$\eta_{STC}$	13.10 %	13.70 %
Maximum System Voltage	$U_{DC}$	1000V	1000V

STC: Irradiance 1000 W/m<sup>2</sup>; Spectrum AM 1,5; Cell Temperature 25°C, Wind 0 m/s

### Temperature Coefficients

Power Coefficient	$\alpha_k (P_{MPP})$	- 0.45 %/K
Voltage Coefficient	$\beta_k (U_{OC})$	- 0.35 %/K
Current Coefficient	$\phi_k (I_{SC})$	0.065 ± 0.015 %/K

### Power Warranty

10 years performance warranty to 90 %

25 years performance warranty to 80 %

12 years warranty against production and material defects

### Certifications

IEC 61215, IEC 61730 ,TUV, CE, ISO9001:2000

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