



Technical Data

Type	FS-3*38cells-180W
Type of Solar Cell	Mono-crystalline, 210 mm×210mm
Number of Cells	3*38pcs
Size of module	1380×670×30mm (210×35mm cell)
Module, Weight	10.30kg
Connector / Cross-Section	Junction Box
Cables, Length (+/-)	Customizable
Front Cover Glass	Safety Glass
Front Cover Glass, Thickness	3.2 mm
Frame	Anodized Aluminium

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Maximum Power	$P_{MPP\ STC}$	180W
Power Tolerance	Δ_{STC}	+3%
Maximum Power Voltage	$U_{MPP\ STC}$	20.90V
Maximum Power Current	$I_{MPP\ STC}$	8.61A
Open Circuit Voltage	$U_{OC\ STC}$	24.70V
Short Circuit Current	$I_{SC\ STC}$	9.50A
Cell Efficiency	η_{STC}	19.46%
Maximum System Voltage	U_{DC}	1000V

Power Warranty

10 years performance warranty to 90%
 25 years performance warranty to 80%
 5 years warranty against production and material defects

Certifications

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

Temperature Coefficients

Power Coefficient	$\alpha_k (P_{MPP})$	$-0.50 \pm 0.05\%/K$
Voltage Coefficient	$\beta_k (U_{oc})$	$-0.35 \pm 0.01\%/K$
Current Coefficient	$\Phi_k (I_{sc})$	$0.065 \pm 0.015\%/K$



STC: Irradiance 1000 W/m²; Spectrum AM 1.5; Cell Temperature 25°C, Wind 0 m/s