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SPECIFICATION DATA

GRANT 185WP MONOCRYSTALLINE SOLAR MODULE

Features

- ✓ High efficiency mono crystalline cells
- ✓ High conversion efficiency based on innovative technologies
- ✓ Selected EVA, TPT, and other raw materials to ensure long durability
- ✓ 3.2 mm high transmission glass
- ✓ Withstands wind-pressure and snow loads up to 5400Pa (IEC61215)



QUALITY AND WARRANTY

Quality Management Systems **ISO 9001:2000**

Environmental Management System **ISO 14001:2008**

TÜV 61215, TÜV 61730, conformity to **CE, IEC**

UL (under application)

MCS (Certificate No: MCS BBA 0010)

Product Warranty: 5 years

Performance Warranty: Up to 25 years (10 years for power output $\geq 90\%$, 25 years for output $\geq 80\%$)

ELECTRICAL CHARACTERISTICS

Power Rating [W]	185
Tolerance of Power Rating [%]	± 3
Maximum Power Voltage [V]	36.4
Maximum Power Current [A]	5.08
Open-Circuit Voltage [V]	44.3
Short-Circuit Current I_{sc} [A]	5.20
Maximum System Voltage [VDC]	1000
Cell Efficiency η [%]	17.3
Panel Efficiency η [%]	14.5
Maximum Series Fuse Rating [A]	15

MECHANICAL CHARACTERISTICS

Cell Connection	72 x mono-crystalline silicon (6x12)
Solar cell	125mmx125mm
Dimensions	1580x808x45 mm
Weight	15.5kg (2 pieces/carton)
Frame	Anodised aluminum alloy
Junction box	IP65 rated
Cable	$\Phi=4\text{mm}^2$ L=900mm TUV certified

TEMPERATURE COEFFICIENTS

Peak Power Temperature Coefficient ($\%/^{\circ}\text{C}$)	$-(0.47\pm 0.05)$
Short-Circuit Current Temperature Coefficient ($\%/^{\circ}\text{C}$)	(0.045 ± 0.01)
Open-Circuit Voltage Temperature Coefficient ($\%/^{\circ}\text{C}$)	-0.34
NOCT-Nominal Operating Cell Temperature ($^{\circ}\text{C}$)	45 ± 2
Standard Test Condition: Air Mass 1.5, Irradiation	1000 W/m ²
Cell Temperature	25 $^{\circ}\text{C}$



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