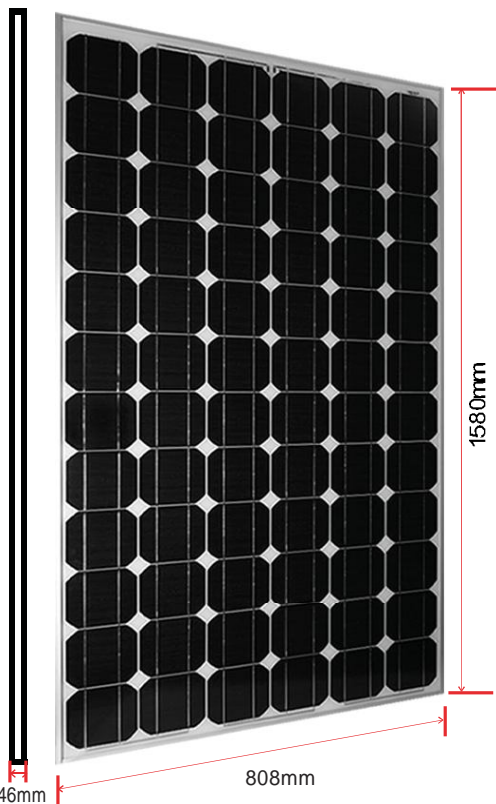
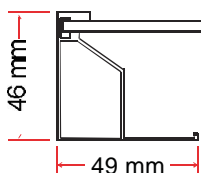


Sun-Earth Mono-Crystalline Photovoltaic Module

TDB125×125-72-P 185W



Module Frame Design (185W)



Side View

Quality Frame

Designed with 45 years experience, Sun-Earth's framing increase's strength against wind and hail.

ELECTRICAL CHARACTERISTICS

	185Wp
Maximum Power (Pmax)	185W
Power Tolerance (%)	±3
Maximum Power Voltage (Vmp)	36.4
Maximum Power Current (Imp)	5.08
Open circuit Voltage (Voc)	44.8
Short circuit Current (Isc)	5.35
Maximum System Voltage (VDC)	1000
Temp coefficient Voc	-0.35% /°C
Temp coefficient Isc	+0.05% /°C
Temp coefficient Power	-0.45% /°C
Nominal Operating Cell Temp. (NOCT)	45.5°C



• Qualified, IEC 61215
• Safety tested,
TUV-Spec 9312:572-9
Periodic Inspection



35AY
LISTED
PHOTOVOLTAIC MODULE



Anti-reflective glass

Reduces loss of light, which means you get a greater return on your output, even at low light.

3 Bypass Diodes

Increase tolerance to shade. Maximising output

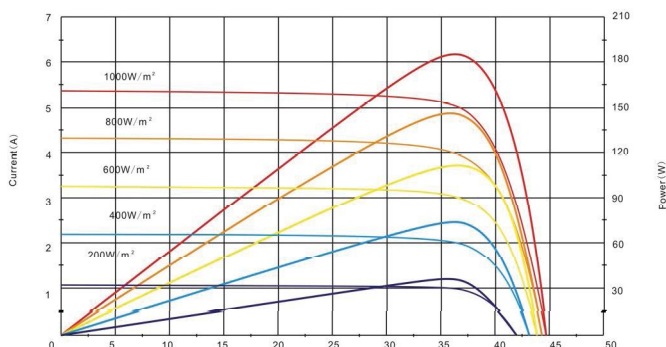
Long Service Life

23 year old modules still operating at 90% of installed capacity.

Performs in extreme weather

Practical test conducted in the tibetan moutnains.

I-V Curves (185W)



MECHANICAL CHARACTERISTICS

Weight(kg)	16 kg
Frame structure (Material, Corners)	Anodised Aluminium
Front side	Glass
Front glass thickness	3.2mm
Encapsulant	EVA
Back side	TPT
Junction Box / Connector Type	Sun-Earth Ip65 / MC-4

CELLS

Brand Name of Solar Cells	Sun-Earth
Cell Type	Mono Crystalline Cell
Cell Size	125 x 125 mm
Cell Shape	Quasi Square
Number Cells	72 in series

ABSOLUTE MAXIMUM RATINGS

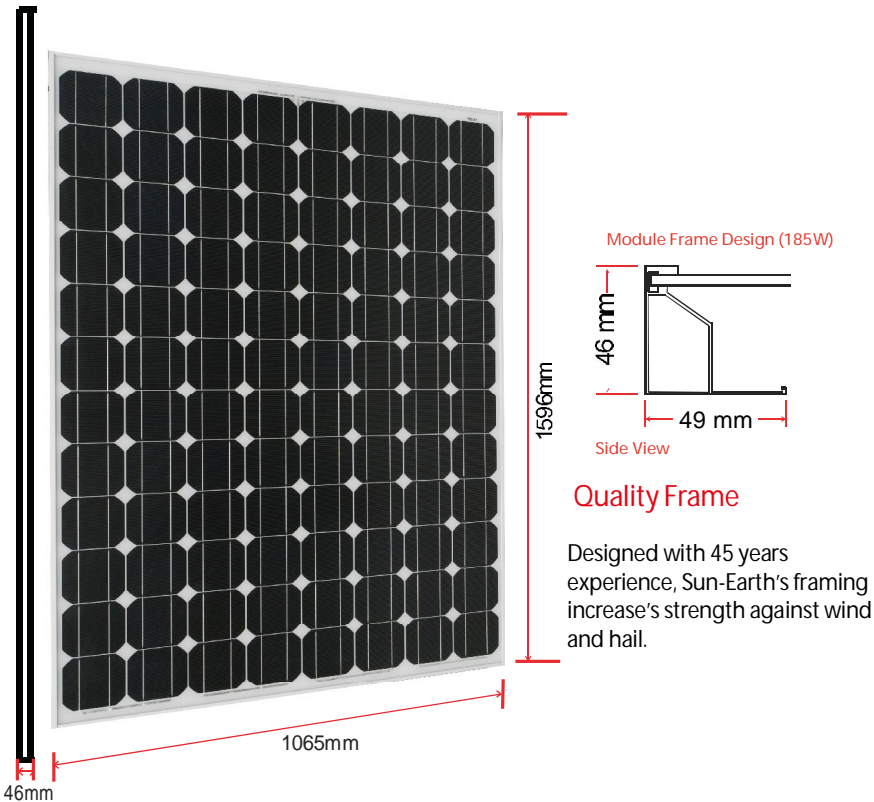
Operating Temperature	-40°C ~ +85°C
Storage Temperature	-40°C ~ +85°C
Maximum Load Capacity	200 Kg/m2
Maximum Hail Diameter @ 80km/h	25mm

STANDARD TEST CONDITIONS

AM	1.5
Irradiation	1000 W/m2
Tc	25°C

Sun-Earth Mono-Crystalline Photovoltaic Module

TDB125×125-96-P 250W



ELECTRICAL CHARACTERISTICS

	250Wp
Maximum Power (Pmax)	250W
Power Tolerance (%)	±3
Maximum Power Voltage (Vmp)	48.6
Maximum Power Current (Imp)	5.15
Open circuit Voltage (Voc)	59.8
Short circuit Current (Isc)	5.38
Maximum System Voltage (VDC)	750
Temp coefficient Voc	-0.35% /°C
Temp coefficient Isc	+0.05% /°C
Temp coefficient Power	-0.45% /°C
Nominal Operating Cell Temp. (NOCT)	45.5°C



Anti-reflective glass

Reduces loss of light, which means you get a greater return on your output, even at low light.

3 Bypass Diodes

Increase tolerance to shade. Maximising output

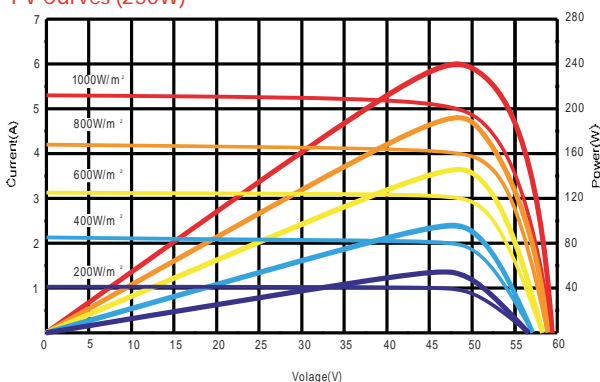
Long Service Life

23 year old modules still operating at 90% of installed capacity.

Performs in extreme weather

Practical test conducted in the tibetan moutnains.

I-V Curves (250W)



MECHANICAL CHARACTERISTICS

Weight(kg)	22 kg
Frame structure (Material, Corners)	Anodised Aluminium
Front side	Glass
Front glass thickness	3.2mm
Encapsulant	EVA
Back side	TPT
Junction Box / Connector Type	Sun-Earth Ip65 / MC-4

CELLS

Brand Name of Solar Cells	Sun-Earth
Cell Type	Mono Crystalline Cell
Cell Size	125 x 125 mm
Cell Shape	Quasi Square
Number Cells	96 in series

ABSOLUTE MAXIMUM RATINGS

Operating Temperature	-40°C ~ +85°C
Storage Temperature	-40°C ~ +85°C
Maximum Load Capacity	200 Kg/m2
Maximum Hail Diameter @ 80km/h	25mm

STANDARD TEST CONDITIONS

AM	1.5
Irradiation	1000 W/m2
Tc	25°C