180W Solar Panel

Solar
TECHNOLOGY INTERNATIONAL

BENEFITS

High Efficiency
Industry leading panel efficiency of 14.2%.

Classic Design
Combines high efficiency and attractive monocrystalline cells give an elegant appearance.

More Power
Using industry leading 17.0% efficiency solar cells delivers incredible performance.

Reliable and Robust Design
Proven materials, tempered front glass, and a sturdy anodized frame allow panels to operate reliably in multiple mounting configurations.

180W SOLAR PANEL

MONOCRYSTALLINE 180WP – 24V

Features
- High conversion efficiency based on leading innovative photovoltaic technologies
- High reliability with guaranteed ±3% power output tolerance, ensuring the highest return on investment
- Withstands high wind-pressure and snow load (passed IEC 5400Pa mechanical loading test), and extreme temperature variations

Quality and Safety
- 25 year power output transferable warranty
- Rigourous quality control meeting the highest international standards
- ISO 9001:2000 (Quality Management System) and ISO 1400:2004 (Environmental Management System) certified factories manufacturing world class products
- IEC61215, IEC61730, conformity to CE

Recommended Applications
- Residential roof top systems
- On-grid utility systems
- On-grid commercial systems

APPROVED PRODUCT

MCS

BBA APPROVAL INSPECTION TESTING CERTIFICATION
TECHNICAL APPROVALS FOR CONSTRUCTION

CE

www.tuv.com TÜVRheinland ID. 0000021649

MODEL NO: ST-ZKS-180D-24

180W Solar Panel

SPECIFICATIONS

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MODEL NO. ST-ZKX-180D-24
(in MCS certification)

TECHNICAL DATA

Maximum Power @ STC	Pmax	180Wp
Open Circuit Voltage	Voc	44.2V
Optimum Operating Voltage	Vmp	36.8V
Short Circuit Current	Isc	5.35A
Optimum Operating Current	Imp	4.90A
Operating Temperature	-40°C to +85°C	
Maximum System Voltage	1000VDC	
Maximum Serials Fusing Rating	15A	
Power Tolerance	±3%	
Cell Efficiency	17.00%	
Module Efficiency	14.20%	
Type of Solar Cells	Monocrystalline, 125 x 125mm (5-inch)	
No. of Cells	72 (6 x 12)	
Dimensions	1580 x 808 x 35mm	
Net Weight	15.5 Kg	
Frame	Anodized aluminium alloy	
Front Glass	3.2 mm tempered glass	
Backsheet	TPT (DNP Japan)	
Junctions Box	IP65 rated (3 bypass diodes)	
Cables	LAPP 4.0mm², length (-) 900mm and (+) 900mm; MC Plug Type IV connectors	
Nominal Operating Cell Temperature (NOCT)		45±2°C
Temperature Coefficient of Pmax		-0.48%/°C
Temperature Coefficient of Voc		-0.34%/°C
Temperature Coefficient of ISC		0.037%/°C

WARRANTY AND CERTIFICATION

Warranty	25 year limited power warranty
Certification	10 year limited product warranty

APPROVED PRODUCT

MCS BBA

Certificate No: MCS BBA 0015

Technology: MCS 005 Solar Photovoltaic Modules (Monocrystalline or Polycrystalline cell technology)

Products: ST2KX-155D-24, ST2KX-160D-24, ST2KX-165D-24, ST2KX-170D-24, ST2KX-175D-24, ST2KX-180D-24

MCS

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Station Drive
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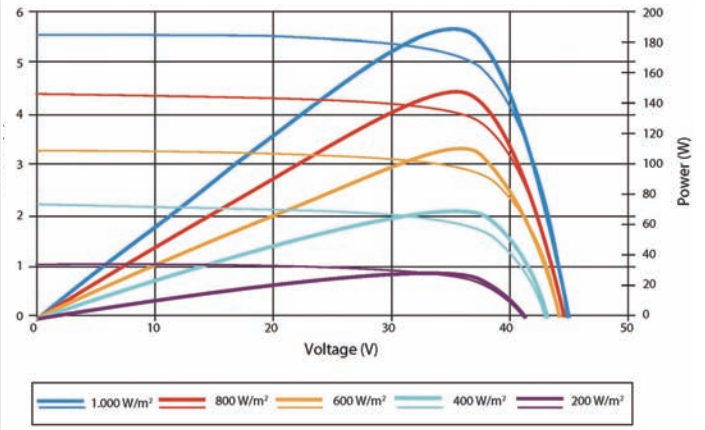
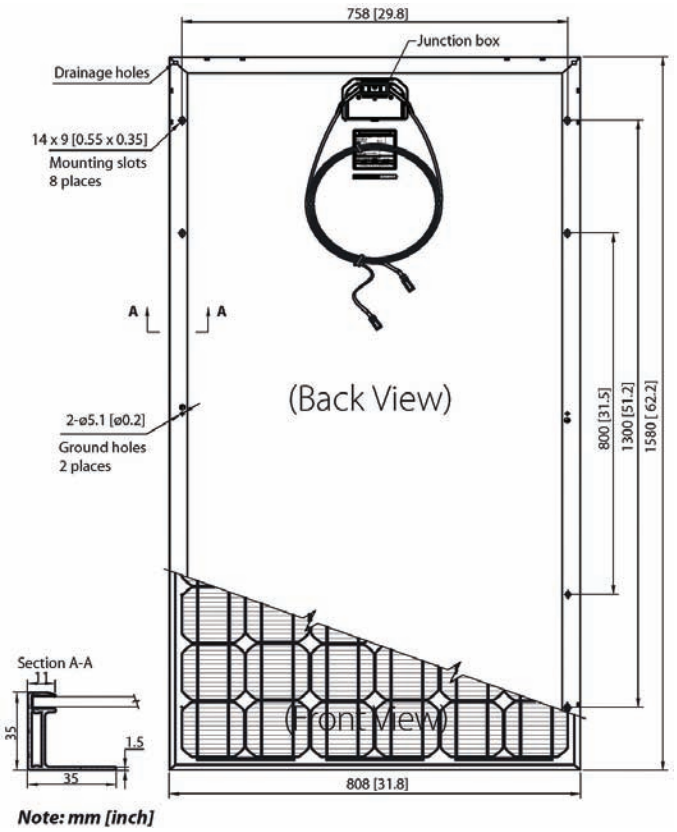
Tewkesbury
GL20 7HH

IV CURVE



STC: Irradiance 1000W/m², Module temperature 25°C, AM=1.5
(All technical data subject to changes without prior notice)

DIMENSIONS



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