SOLAR LEADING
To a better future

www.solarleading.com

Mono 285-300W

Features

High module conversion efficiency
(Up to 15.98 %), through superior cell technology and religious quality control.

Positive tolerance
Guaranteed positive tolerance from 0 to 10watt.

Splendid appearance
Meticulous systemized appearance control meeting the highest quality regulatory standards.

Low PID rate
Minimizing potential induced declaration rate with high glass transmission, low interconnected transmission loss and high EVA absorption rate.

Smart auto-recognition of weak light performance.
Smart light auto-recognition under the condition of low irradiance and hazy light (mornings, evenings and cloudy days)

Steady resistance to strong hailstone, wind and snow loads.
Special frame construction certified to ensure high wind loads (2400 Pascal) and hailstone, snow loads (5400 Pascal)

Solar Leading sorting standards.
All Solar Leading modules sorted and packaged by power reducing mismatch losses of up to 3%.

Certified manufacturing facility.
Manufacturing facility certified by TÜV Rheinland to ISO 9001:2008, ISO14001:2004.

Certifications and standards:
IEC 61215, IEC 61730, conformity to CE.

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Warranty

10 years material and workmanship warranty.
12 years warranty on 90% of nominal power output.
25 years warranty on 80% of nominal power output.

Special designed drainage holes and rigid construction steadily prevent frame from freezing and warping.

Packing Configuration

Module Size (mm)	1956*992*50
Packing Size (mm)	**Packing Type**
2000*1030*110	2 Pcs/Ctn, 17 Ctns/Pallet, 170 Pcs/20'GP 2 Pcs/Ctn, 17 Ctns/Pallet, 374 Pcs/40'GP
2000*1030*860	15 Pcs/Ctn, 330 Pcs/40'GP
2000*1030*1120	20 Pcs/Ctn, 440 Pcs/40'HQ

IP67 rated junction box and high performance connectors certified as IEC 61215 improve module performance effectively by minimizing the interconnected transmission output loss.

Electrical Specifications

Electrical Specifications at STC (1000w/m², AM1.5, cell temperature 25℃)

Type		SL6-72-285	SL6-72-290	SL6-72-295	SL6-72-300
Max. Power	P_{MAX} (Wp)	285	290	295	300
Max.Power Voltage	U_{MPP} (V)	36.0	36.1	36.2	36.3
Max.Power Current	I_{MPP} (A)	7.92	8.03	8.15	8.26
Open-Circuit Voltage	V_{OC} (V)	43.5	43.6	43.7	43.8
Short-Circuit Current	I_{SC} (A)	8.66	8.75	8.82	8.89
Cell Efficiency	(%)	≥17.08	≥17.38	≥17.68	≥17.98
Module Efficiency	(%)	≥14.69	≥14.95	≥15.20	≥15.46
FF	(%)	75.7	76.0	76.5	77.0

Mechanical Properties

Frame	Aluminium anodized, screwed design
Dimensions	1956*992*50 mm (156*156 mm cell)
Weight	22.5 kg
Front Cover	3.2 mm ultra clear, low iron tempered glass, with high light transmittance.
Backside Cover	TPT
Cells per Module	72 pcs
Cell Type	Monocrystalline 156*156 mm

System Integration

Class of Usage (IEC 61730)	A
Fire Rating (IEC 61730)	C
Tolerance Range (%)	0 to 10watt
Max. Series Fuse	15 A
Cable (TÜV Checked)	2 * 900 mm, 4mm²
Type of Connector (TÜV Checked)	MC4 Compatible
Junction Box (TÜV Checked)	IP 67, 6 Bypass Diodes
Allowable Hail Load	242 steel ball fallen down from 1m height
Max. Systems Voltage (DC)	1000 V (IEC)

Thermal Characteristics

Norminal Operating Cell Temp. (NOCT)	47℃(±2℃)
Temp. Coefficient Voltage (Voc)	−0.35%/℃
Temp. Coefficient Current (Isc)	+0.04%/℃
Temp. Coefficient Power (Pm)	−0.48%/℃

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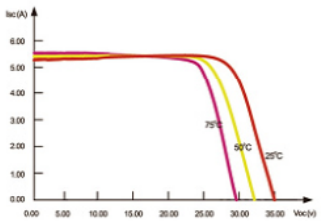
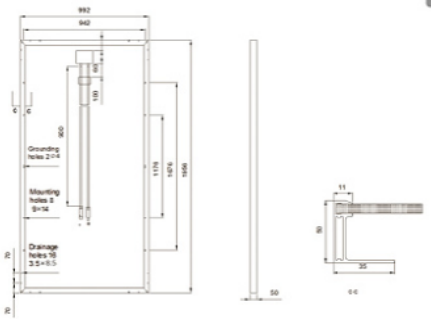
I-V CURVES OF PV MODULE XTM6-72 AT VARIOUS CELL TEMPERATURES





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