

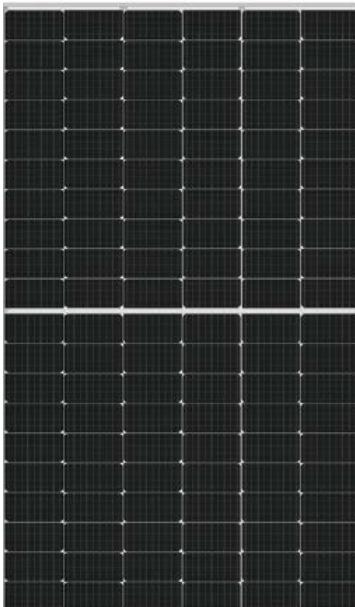


Big Size: Cell 166*83

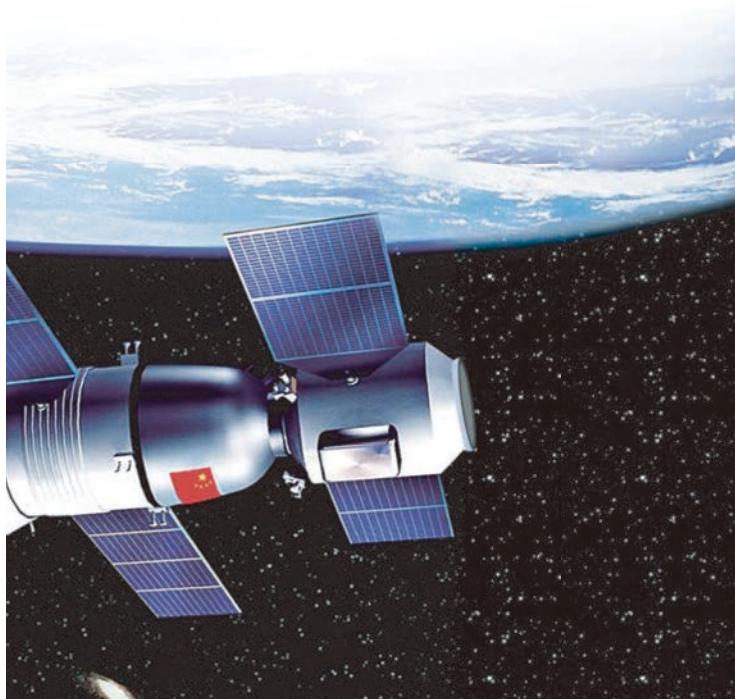
Monocrystalline

360W / 365W

370W / 375W / 380W



- Module Efficiency: 20.9%
- No.of Cells: 120 (6 × 20)
- Weight: 19.5kg
- Dimensions: 1755mm×1038mm×35mm



PT60-166M

High Efficiency Low LID with Half-cut Technology

POLYTECHNIC ENGINEERING INDUSTRIAL Co.LTD
İstanbul / TURKEY

Website:
www.polytechnic.com.tr



Half cut cell technology can reduce the internal power loss and improve component overall power. Excellent heat dissipation avoids hot spot production.



9BB The optimized number and width of main gate lines, Maximize the light receiving area of components and Reduce component power consumption

12 Ys

Products Warranty

25 Ys

Warranty on power output

EL

Microcrack resistant high performance backsheet structure enhance reliability, triple EL tested of high quality control.



All the modules are sorted and packaged by amperage, reducing mismatch losses and maximizing system output.



5W

Positive tolerance 0/+5W guaranteed

PID

PID Resistant

Comprehensive and first-rate certification system

IEC61215: 2016.IEC61730: 2016 Latest Standard

and UL 61730 Latest Standard, ISO9001, ISO14001 and ISO45001, meeting the highest international standards Strict quality control



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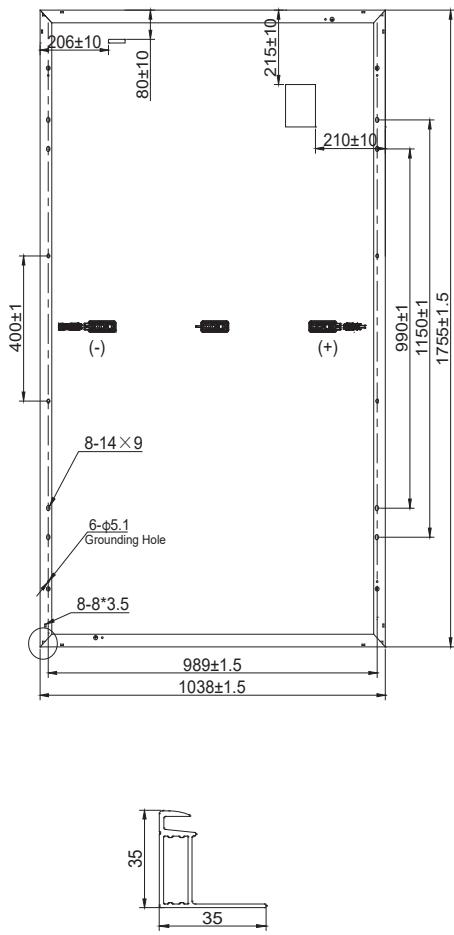
POLYWAY +

Better Choice For Higher Efficiency!

1500V module PT60-166M

360W/365W/370W/375W/380W

Engineering Drawing



Electrical Characteristics

Module	PT60-166M				
Maximum Power at STC(Pmax)	360W	365W	370W	375W	380W
Open-Circuit Voltage(Voc)	41.1V	41.3V	41.5V	41.6V	41.7V
Short-Circuit Current(Isc)	11.53A	11.63A	11.72A	11.85A	11.98A
Optimum Operating Voltage (Vmp)	33.7V	33.9V	34.1V	34.2V	34.6V
Optimum Operating Current(Imp)	10.69A	10.77A	10.86A	10.98A	10.99A
Module Efficiency	19.8%	20.0%	20.3%	20.6%	20.9%
Power Tolerance	0 ~ +5W				
Maximum System Voltage	1500V DC(UL/IEC)				
Maximum Series Fuse Rating	20A				
Operating Temperature	-40 °C to + 85°C				

*STC:Irradiance 1000W/m², module temperature 25, AM=1.5
Optional black frame or white frame module according to customer requirements

NMOT

Module	PT60-166M				
Maximum Power	267W	271W	275W	279W	283W
Open Circuit Voltage (Voc)	38.8V	39.0V	39.2V	39.4V	39.6V
Short Circuit Current (Isc)	9.30A	9.39A	9.48A	9.58A	9.65A
Maximum Power Voltage (Vmp)	31.8V	32.0V	32.2V	32.4V	32.6V
Maximum Circuit Current (Imp)	8.40A	8.47A	8.54A	8.61A	8.68A
NMOT	45°C±2°C				

*NMOT:Irradiance 800W/m², ambient temperature 20°C, wind speed 1 m/s

Mechanical Characteristics

Solar Cells	Monocrystalline 166 × 83 mm				
No.of Cells	120 (6 × 20)				
Dimensions	1755mm×1038mm×35mm				
Weight	19.5 kg				
Front Glass	High transmission tempered glass				
Frame	Anodized aluminium alloy				
Junction Box	IP68				
Cable	4mm ² (UL/IEC) Length: (+) 400mm (-) 200mm/length can be customized				
Connectors	MC ₄ / MC ₄ Compatible				
Packaging Configuration	31pcs / box, 858pcs / 40'HQ Container				

Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.39%/C
Temperature Coefficient of Voc	β (Voc)	-0.29%/C
Temperature Coefficient of Isc	α (Isc)	0.049%/C

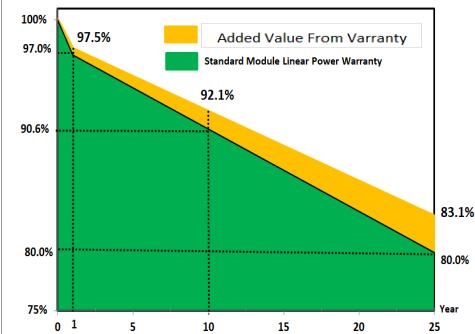
Warranty

12-year product warranty

25-year warranty on power output

Specific information is referred to the product quality guarantee

Information Box



The module recycling should be carried out by the professional institutions at the end of module life cycle

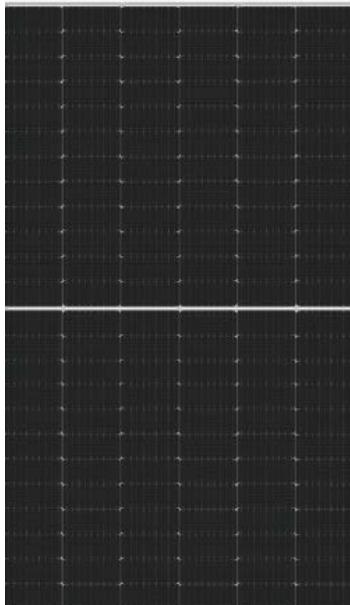


Big Size: Cell 166*83

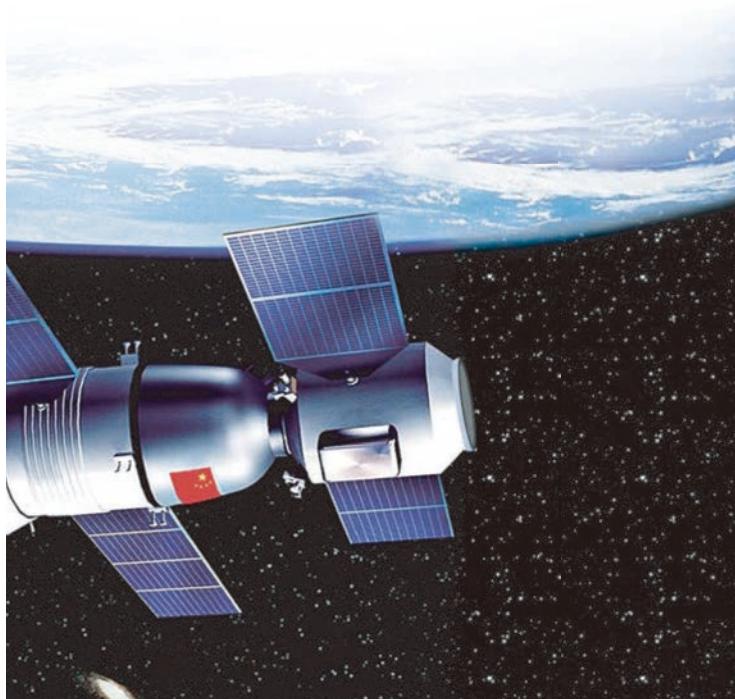
Monocrystalline

435W / 440W

445W / 450W / 455W



- Module Efficiency: 20.9%
- No.of Cells: 144 (6 × 24)
- Weight: 23.5kg
- Dimensions: 2094mm×1038mm×35mm



PT72-166M

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9BB The optimized number and width of main gate lines, Maximize the light receiving area of components and Reduce component power consumption



Designed for high voltage systems of up to 1500 VDC, increasing the string length of solar systems and saving on costs

12 Ys

Products Warranty

25 Ys

Warranty on power output

EL

Microcrack resistant high performance backsheet structure enhance reliability, triple EL tested of high quality control.



If the modules are sorted and packaged by amperage, reducing mismatch losses and maximizing system output.



Entire module certified to withstand extreme wind (2400 Pa) and snow loads (5400 Pa)

5W

Positive tolerance +0/5W guaranteed

PID

PID Resistant

Comprehensive and first-rate certification system

IEC61215: 2016 IEC61730: 2016 Latest Standard

and UL 61730 Latest Standard, ISO9001[®], ISO14001 and ISO.... 1, meeting the highest international standards Strict quality control



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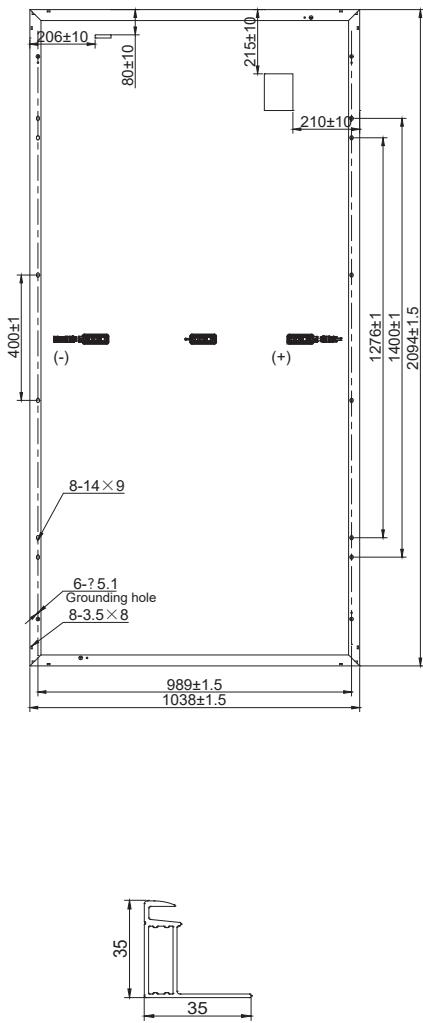
POLYWAY +

Better Choice For Higher Efficiency!

1500V module PT72-166M

435W/440W/445W/450W/455W

Engineering Drawing



Electrical Characteristics

Module	PT72-166M				
Maximum Power at STC(Pmax)	435W	440W	445W	450W	455W
Open-Circuit Voltage(Voc)	49.6V	49.8V	49.9V	50.0V	50.1V
Short-Circuit Current(Isc)	11.53A	11.60A	11.72A	11.83A	11.96A
Optimum Operating Voltage (Vmp)	40.7V	40.9V	41.0V	41.1V	41.4V
Optimum Operating Current(Imp)	10.70A	10.77A	10.86A	10.96A	10.99A
Module Efficiency	20.0%	20.2%	20.5%	20.7%	20.9%
Power Tolerance	0 ~ +5W				
Maximum System Voltage	1000V / 1500V DC(UL/IEC)				
Maximum Series Fuse Rating	20A				
Operating Temperature	-40 °C to + 85°C				

*STC:Irradiance 1000W/m², module temperature 25, AM=1.5
Optional black frame or white frame module according to customer requirements

NMOT

Module	PT72-166M				
Maximum Power	322W	326W	330W	334W	338W
Open Circuit Voltage (Voc)	46.9V	47.1V	47.3V	47.5V	47.7V
Short Circuit Current (Isc)	9.28A	9.35A	9.42A	9.49A	9.56A
Maximum Power Voltage (Vmp)	38.5V	38.7V	38.9V	39.1V	39.3V
Maximum Circuit Current (Imp)	8.36A	8.43A	8.49A	8.56A	8.62A
NMOT	45°C ± 2°C				

*NMOT:Irradiance 800W/m², ambient temperature 20°C, wind speed 1 m/s

Mechanical Characteristics

Solar Cells	Monocrystalline 166 × 83 mm				
No.of Cells	144 (6 × 24)				
Dimensions	2094mm×1038mm×35mm				
Weight	23.5 kg				
Front Glass	High transmission tempered glass				
Frame	Anodized aluminium alloy				
Junction Box	IP68				
Cable	4mm ² (UL/IEC) Length: (+) 400mm (-) 200mm/length can be customized				
Connectors	MC ₄ / MC ₄ Compatible				
Packaging Configuration	31pcs / box, 726pcs / 40HQ Container				

Temperature Characteristics

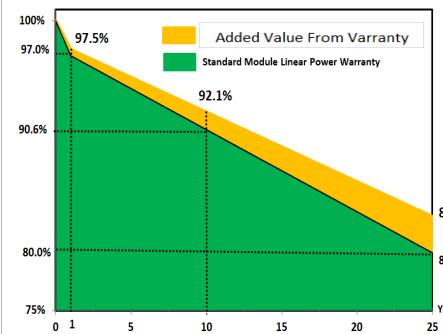
Temperature Coefficient of Pmax	γ (Pm)	-0.39%/C
Temperature Coefficient of Voc	β (Voc)	-0.29%/C
Temperature Coefficient of Isc	α (Isc)	0.049%/C

Warranty

12-year product warranty

25-year warranty on power output

Specific information is referred to the product quality guarantee



Information Box

The module recycling should be carried out by the professional institutions at the end of module life cycle



Big Size: Cell 182*91

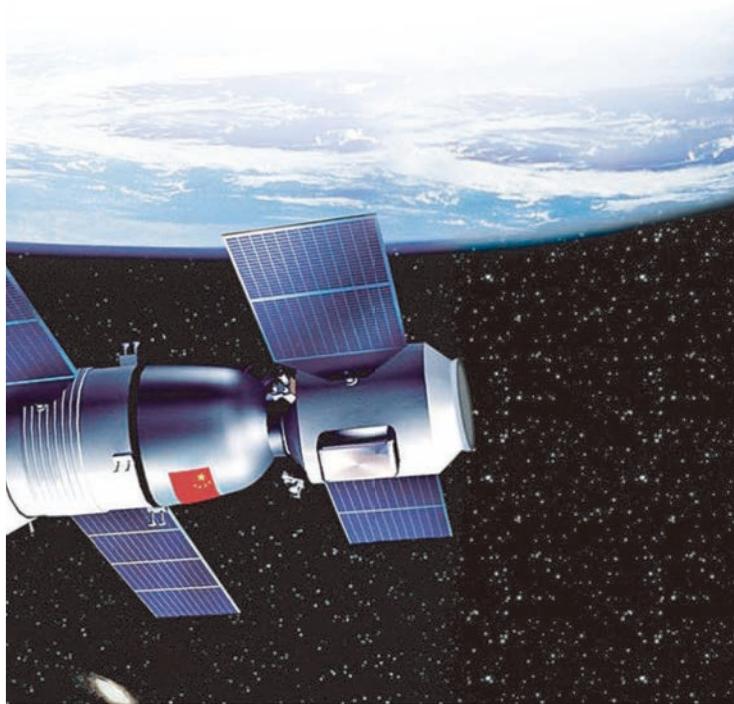
Monocrystalline

440W / 445W

450W / 455W / 460W



- Module Efficiency: 21.3%
- No.of Cells: 120 (6 × 20)
- Weight: 22.7kg
- Dimensions: 1908mm×1133mm×35mm



PT60-18X

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12 Ys

Products Warranty

25 Ys

Warranty on power output

EL

Microcrack resistant high performance backsheet structure enhance reliability, triple EL tested of high quality control.



All the modules are sorted and packaged by amperage, reducing mismatch losses and maximizing system output.

5W

Positive tolerance 0/+5W guaranteed

PID

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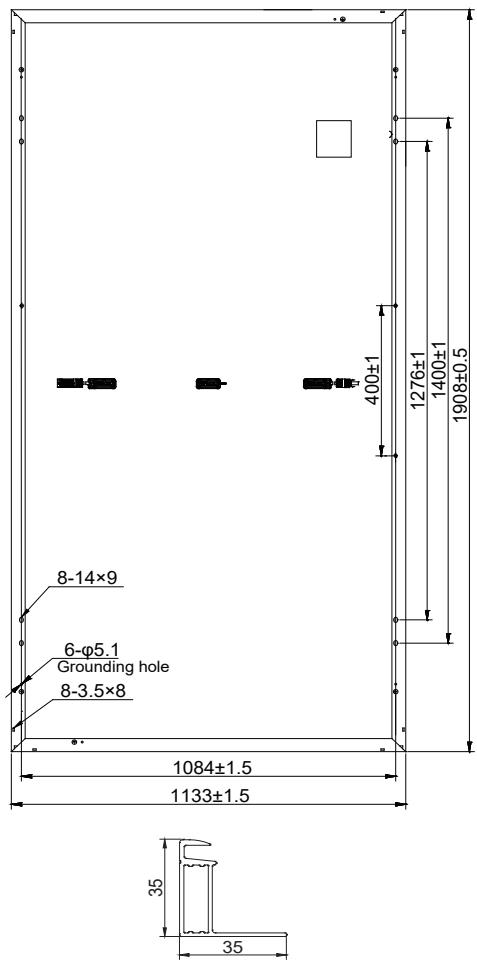
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Better Choice For Higher Efficiency!

1500V module PT60-18X

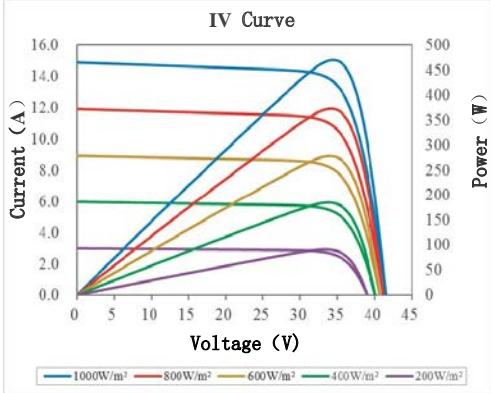
440W/445W/450W/455W/460W

Engineering Drawing



I-V Curves

Current-Voltage & Power-Voltage Curve



Electrical Characteristics

Module	PT60-18X				
Maximum Power at STC(Pmax)	440W	445W	450W	455W	460W
Open-Circuit Voltage(Voc)	41.03V	41.18V	41.33V	41.48V	41.63V
Short-Circuit Current(Isc)	13.76A	13.83A	13.90A	13.97A	14.04A
Optimum Operating Voltage (Vmp)	34.48V	34.63V	34.78V	34.93V	35.08V
Optimum Operating Current(Imp)	12.77A	12.86A	12.95A	13.04A	13.13A
Module Efficiency	20.4%	20.6%	20.8%	21.1%	21.3%
Power Tolerance	0 ~ +5W				
Maximum System Voltage	1500V DC(UL/IEC)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40 °C to + 85°C				

*STC:Irradiance 1000W/m², module temperature 25, AM=1.5
Optional black frame or white frame module according to customer requirements

NMOT

Module	PT60-18X				
Maximum Power	330W	334W	338W	342W	346W
Open Circuit Voltage (Voc)	37.60V	37.75V	37.90V	38.05V	38.20V
Short Circuit Current (Isc)	11.12A	11.20A	11.29A	11.37A	11.46A
Maximum Power Voltage (Vmp)	31.32V	31.47V	31.62V	31.77V	31.92V
Maximum Circuit Current (Imp)	10.54A	10.62A	10.69A	10.77A	10.84A
NMOT	45°C ± 2°C				

*NMOT:Irradiance 800W/m², ambient temperature 20°C, wind speed 1 m/s

Mechanical Characteristics

Solar Cells	Monocrystalline 182 × 91 mm
No. of Cells	120 (6 × 20)
Dimensions	1908mm×1133mm×35mm
Weight	22.7kg
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm ² (UL/IEC) Length: (+) 400mm (-) 200mm/length can be customized
Connectors	MC ₄ / MC ₄ Compatible
Packaging Configuration	31pcs / box, 744pcs / 40HQ Container

Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.39%/C
Temperature Coefficient of Voc	β (Voc)	-0.29%/C
Temperature Coefficient of Isc	α (Isc)	0.049%/C

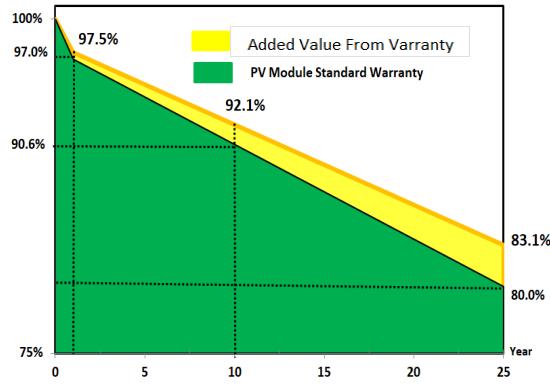
Warranty

12-year product warranty

25-year warranty on power output

Specific information is referred to the product quality guarantee

Information Box



The module recycling should be carried out by the professional institutions at the end of module life cycle



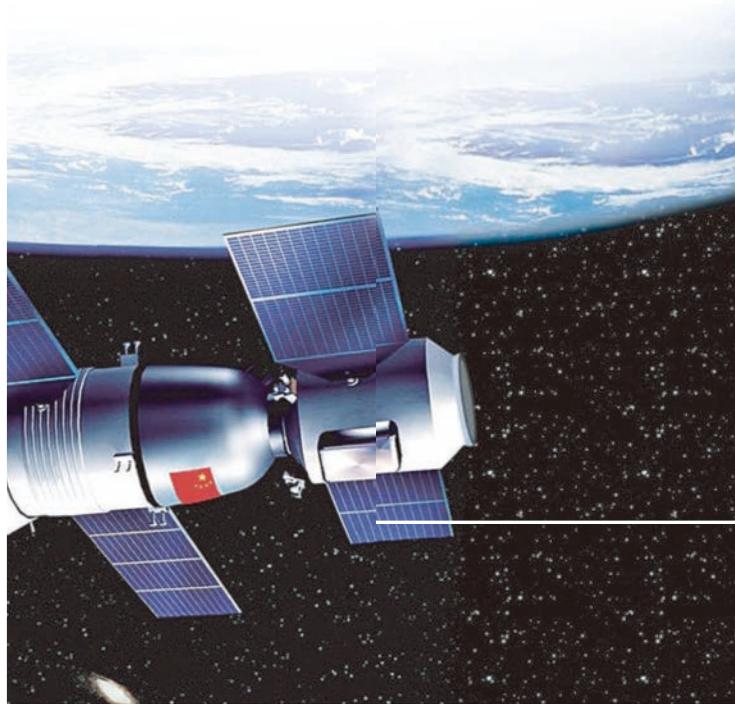
Big Size: Cell 182*91

Monocrystalline

480W / 485W 490W / 495W / 500W



- Module Efficiency: 21.1%
- No.of Cells: 132(6 × 22)
- Weight: 25.0kg
- Dimensions: 2094mm×1133mm×35mm



PT66-18X

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12 Ys
Products Warranty

25 Ys

Warranty on
power output

EL

Microcrack resistant high performance backsheet structure enhance reliability, triple EL tested of high quality control.



All the modules are sorted and packaged by amperage, reducing mismatch losses and maximizing system output.



5W

Positive tolerance
0/+5W guaranteed

PID

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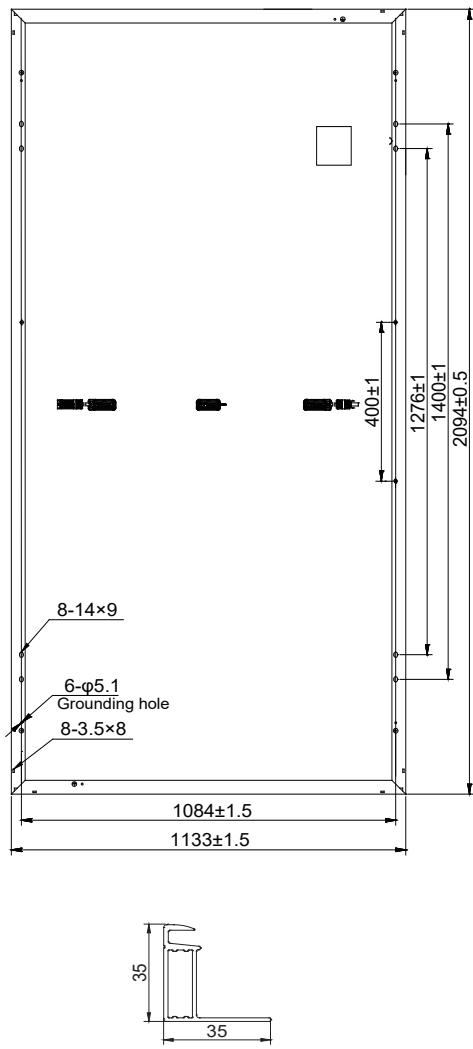
Better Choice For Higher Efficiency!

PT66-18X

1500V module

480W/485W/490W/495W/500W

Engineering Drawing



Electrical Characteristics

Module	PT66-18X				
Maximum Power at STC(Pmax)	480W	485W	490W	495W	500W
Open-Circuit Voltage(Voc)	44.95V	45.10V	45.25V	45.40V	45.55V
Short-Circuit Current(Isc)	13.65A	13.73A	13.79A	13.86A	13.93A
Optimum Operating Voltage (Vmp)	37.77V	37.92V	38.07V	38.22V	38.37V
Optimum Operating Current(Imp)	12.72A	12.80A	12.88A	12.96A	13.04A
Module Efficiency	20.2%	20.4%	20.7%	20.9%	21.1%
Power Tolerance	0 ~ +5W				
Maximum System Voltage	1500V DC(UL/IEC)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40 °C to +85 °C				

*STC:Irradiance 1000W/m², module temperature 25, AM=1.5
Optional black frame or white frame module according to customer requirements

NMOT

Module	PT66-18X				
Maximum Power	360W	364W	368W	372W	376W
Open Circuit Voltage . Voc.	41.41V	41.56V	41.71V	41.86V	42.01V
Short Circuit Current (Isc)	11.21A	11.30A	11.39A	11.50A	11.59A
Maximum Power Voltage (Vmp)	34.35V	34.50V	34.65V	34.8V	34.95V
Maximum Circuit Current (Imp)	10.48A	10.55A	10.62A	10.69A	10.76A
NMOT	45°C±2°C				

*NMOT:Irradiance 800W/m², ambient temperature 20 °C , wind speed 1 m/s

Mechanical Characteristics

Solar Cells	Monocrystalline 182 × 91 mm				
No.of Cells	132 (6 × 22)				
Dimensions	2094mm×1133mm×35mm				
Weight	25.0kg				
Front Glass	High transmission tempered glass				
Frame	Anodized aluminium alloy				
Junction Box	IP68				
Cable	4mm ² (UL/IEC) Length: (+) 400mm (-) 200mm/length can be customized				
Connectors	MC ₄ / MC ₄ Compatible				
Packaging Configuration	31pcs / box, 682pcs / 40HQ Container				

Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.39%/C
Temperature Coefficient of Voc	β (Voc)	-0.29%/C
Temperature Coefficient of Isc	α (Isc)	0.049%/C

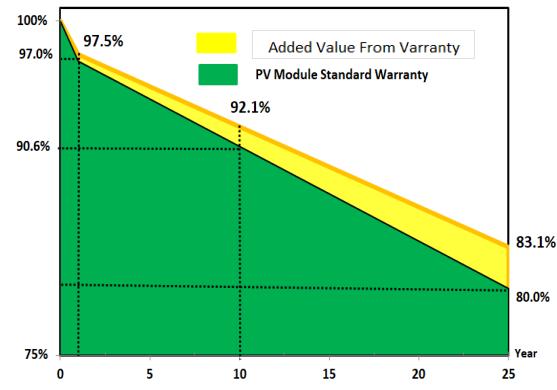
Warranty

12-year product warranty

25-year warranty on power output

Specific information is referred to the product quality guarantee

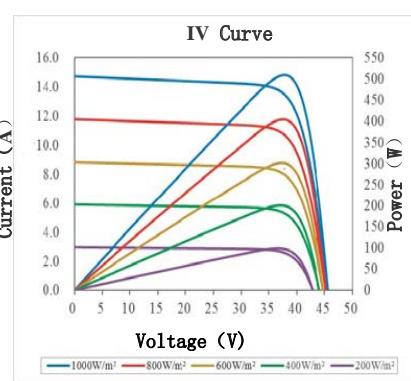
Information Box



The module recycling should be carried out by the professional institutions at the end of module life cycle

I-V Curves

Current-Voltage & Power-Voltage Curve





Big Size: Cell 182*91

Monocrystalline

**530W / 535W
540W / 545W / 550W**



- Module Efficiency: 21.2%
- No.of Cells: 144(6 × 24)
- Weight: 27.2kg
- Dimensions: 2285mm×1133mm×35mm



PT72-18X

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25 Ys

Warranty on power output

EL

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5W

Positive tolerance 0/+5W guaranteed

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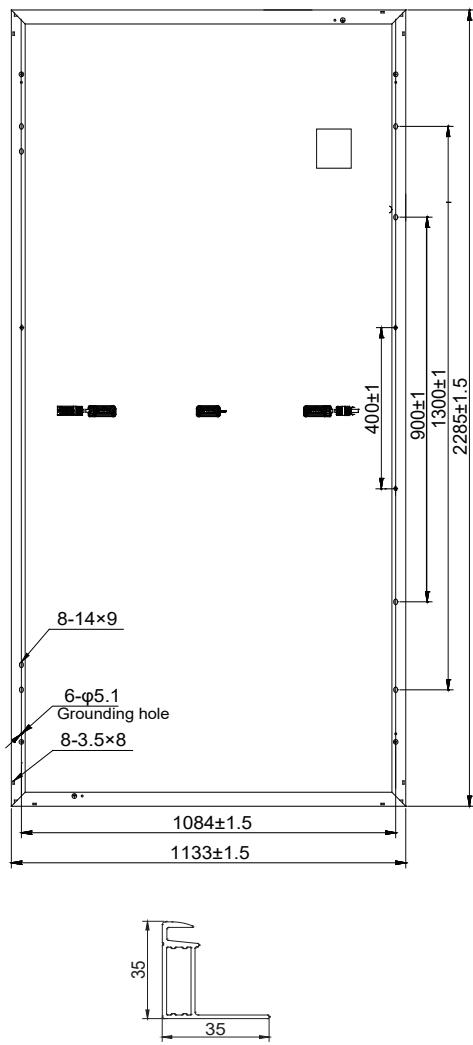
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Better Choice For Higher Efficiency!

1500V module PT72-18X

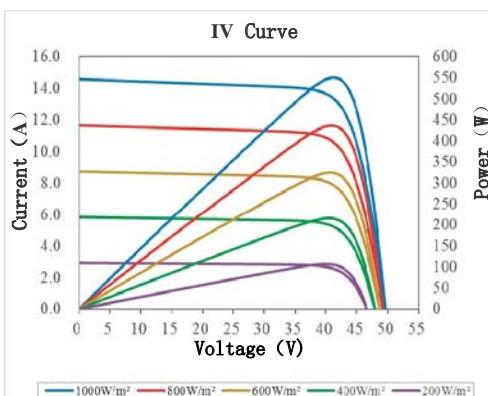
530W/535W/540W/545W/550W

Engineering Drawing



I-V Curves

Current-Voltage & Power-Voltage Curve



Electrical Characteristics

Module	PT72-18X				
Maximum Power at STC(Pmax)	530W	535W	540W	545W	550W
Open-Circuit Voltage(Voc)	49.20V	49.35V	49.50V	49.65V	49.80V
Short-Circuit Current(Isc)	13.76A	13.83A	13.90A	13.95A	14.00A
Optimum Operating Voltage (Vmp)	41.35V	41.50V	41.65V	41.80V	41.95V
Optimum Operating Current(Imp)	12.83A	12.90A	12.97A	13.05A	13.12A
Module Efficiency	20.5%	20.7%	20.9%	21.1%	21.2%
Power Tolerance	0 ~ +5W				
Maximum System Voltage	1500V DC(UL/IEC)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40 °C to + 85°C				

*STC:Irradiance 1000W/m², module temperature 25, AM=1.5
Optional black frame or white frame module according to customer requirements

NMOT

Module	PT72-18X				
Maximum Power	396W	400W	404W	408W	412W
Open Circuit Voltage (Voc)	45.25V	45.40V	45.55V	45.70V	45.85V
Short Circuit Current (Isc)	11.22A	11.29A	11.36A	11.43A	11.50A
Maximum Power Voltage (Vmp)	37.49V	37.64V	37.79V	37.94V	38.09V
Maximum Circuit Current (Imp)	10.56A	10.63A	10.69A	10.75A	10.81A
NMOT	45°C±2°C				

*NMOT:Irradiance 800W/m², ambient temperature 20°C, wind speed 1 m/s

Mechanical Characteristics

Solar Cells	Monocrystalline 182 × 91 mm				
No.of Cells	144 (6 × 24)				
Dimensions	2285mm×1133mm×35mm				
Weight	27.2kg				
Front Glass	High transmission tempered glass				
Frame	Anodized aluminium alloy				
Junction Box	IP68				
Cable	4mm ² (UL/IEC) Length: (+) 400mm (-) 200mm/length can be customized				
Connectors	MC ₄ / MC ₄ Compatible				
Packaging Configuration	31pcs / box, 620pcs / 40HQ Container				

Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.39%/C
Temperature Coefficient of Voc	β (Voc)	-0.29%/C
Temperature Coefficient of Isc	α (Isc)	0.049%/C

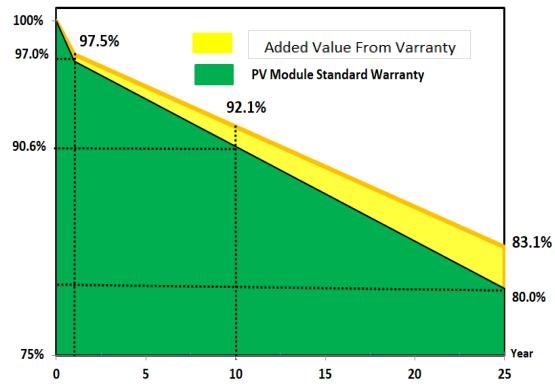
Warranty

12-year product warranty

25-year warranty on power output

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Information Box



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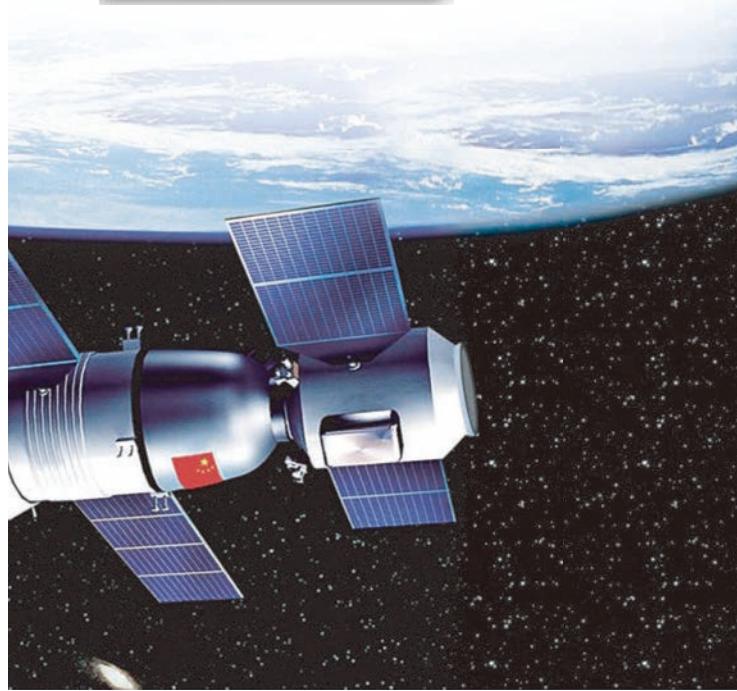
Big Size: Cell 182*91

Monocrystalline

**570W / 575W
580W / 585W / 590W**



- Module Efficiency: 21.1%
- No.of Cells: 156(6 × 26)
- Weight: 29.4kg
- Dimensions: 2470mm×1133mm×35mm



PT78-18X

High Efficiency Low LID with Half-cut Technology

POLYTECHNIC ENGINEERING INDUSTRIAL Co.LTD
İstanbul / TURKEY

Website: www.polytechnic.com.tr



Half cut cell technology can reduce the internal power loss and improve component overall power. Excellent heat dissipation avoids hot spot production.



10BB The optimized number and width of main gate lines, Maximize the light receiving area of components and Reduce component power consumption



12 Ys
Products Warranty

25 Ys

Warranty on power output

EL

Microcrack resistant high performance backsheet structure enhance reliability, triple EL tested of high quality control.



All the modules are sorted and packaged by amperage, reducing mismatch losses and maximizing system output.



5W

Positive tolerance 0/+5W guaranteed

PID

PID Resistant

Comprehensive and first-rate certification system

IEC61215: 2016.IEC61730: 2016 Latest Standard

and UL 61730 Latest Standard, ISO9001, ISO14001 and ISO45001, meeting the highest international standards Strict quality control



IEC 61215
IEC 61730
Regular Production Surveillance
www.tuv.com
ID 1419053360

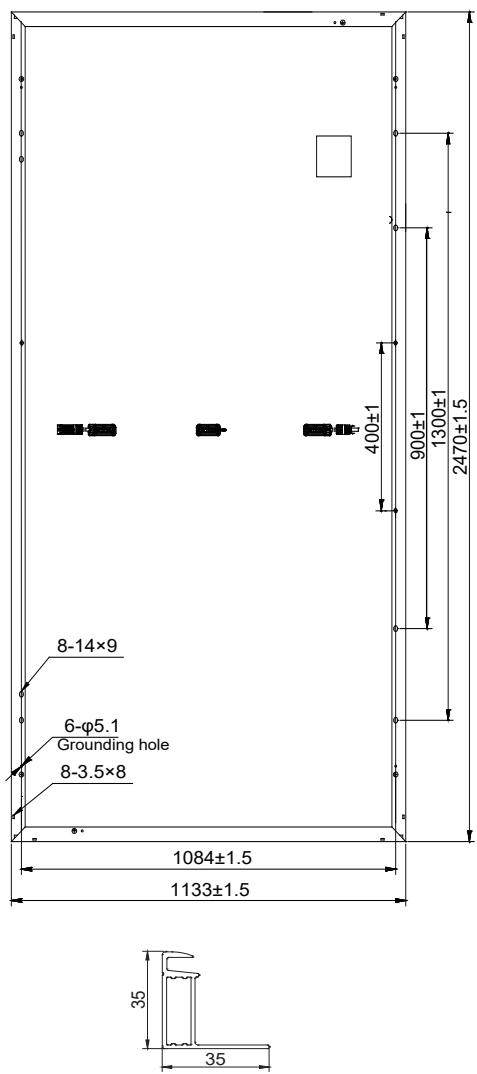
POLYWAY +

Better Choice For Higher Efficiency!

1500V module PT78-18X

570W/575W/580W/585W/590W

Engineering Drawing



Electrical Characteristics

Module	PT78-18X				
Maximum Power at STC(Pmax)	570W	575W	580W	585W	590W
Open-Circuit Voltage(Voc)	53.19V	53.34V	53.49V	53.77V	53.92V
Short-Circuit Current(Isc)	13.68A	13.75A	13.82A	13.89A	13.96A
Optimum Operating Voltage (Vmp)	44.68V	44.83V	44.98V	45.13V	45.28V
Optimum Operating Current(Imp)	12.76A	12.83A	12.90A	12.97A	13.04A
Module Efficiency	20.4%	20.5%	20.7%	20.9%	21.1%
Power Tolerance	0 ~ +5W				
Maximum System Voltage	1500V DC(UL/IEC)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40 °C to + 85°C				

*STC:Irradiance 1000W/m², module temperature 25, AM=1.5
Optional black frame or white frame module according to customer requirements

NMOT

Module	PT78-18X				
Maximum Power	426W	430W	434W	438W	442W
Open Circuit Voltage (Voc)	49.0V	49.15V	49.30V	49.45V	49.6V
Short Circuit Current (Isc)	11.10A	11.17A	11.24A	11.31A	11.38A
Maximum Power Voltage (Vmp)	40.6V	40.75V	40.90V	41.05V	41.20V
Maximum Circuit Current (Imp)	10.50A	10.56A	10.61A	10.67	10.73A
NMOT	45°C±2°C				

*NMOT:Irradiance 800W/m², ambient temperature 20°C, wind speed 1 m/s

Mechanical Characteristics

Solar Cells	Monocrystalline 182 × 91 mm				
No.of Cells	156 (6 × 26)				
Dimensions	2470mm×1133mm×35mm				
Weight	29.4kg				
Front Glass	High transmission tempered glass				
Frame	Anodized aluminium alloy				
Junction Box	IP68				
Cable	4mm ² (UL/IEC) Length: (+) 400mm (-) 200mm/length can be customized				
Connectors	MC ₄ / MC ₄ Compatible				
Packaging Configuration	31pcs / box, 496pcs / 40HQ Container				

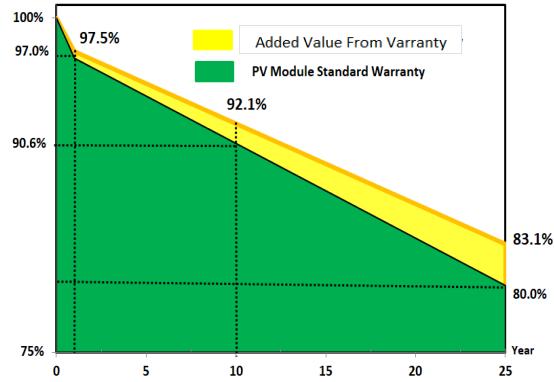
Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.39%/C
Temperature Coefficient of Voc	β (Voc)	-0.29%/C
Temperature Coefficient of Isc	α (Isc)	0.049%/C

Warranty

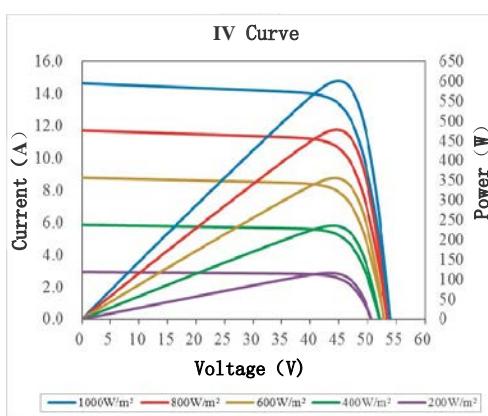
12-year product warranty
25-year warranty on power output
Specific information is referred to the product quality guarantee

InformationBox



I-V Curves

Current-Voltage & Power-Voltage Curve



The module recycling should be carried out by the professional institutions at the end of module life cycle