Solar panel

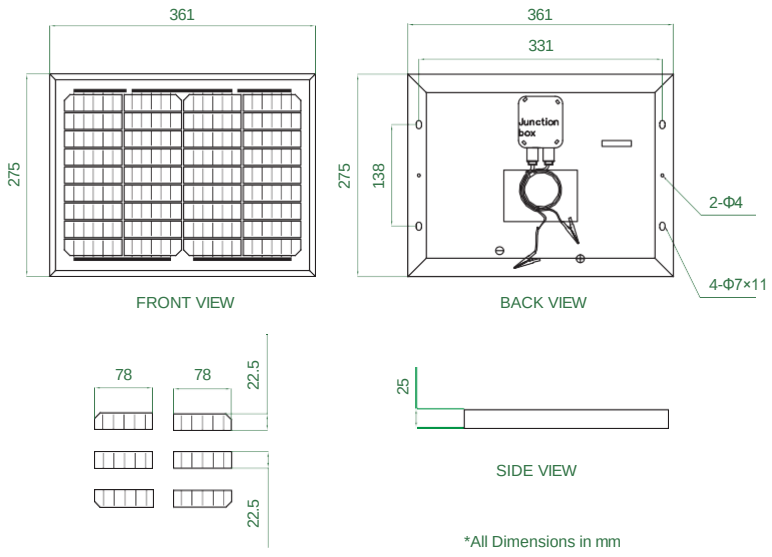
TN10M-36

High Efficiency Monocrystalline PV Module

Electrical Data	TN10M-36
Maximum power (Pmax)	10W
Voltage at Pmax (Vmp)	17.9V
Current at Pmax (Imp)	0.56A
Open-circuit voltage (Voc)	22.0V
Short-circuit current (Isc)	0.62A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V DC
Power tolerance	+ 3%

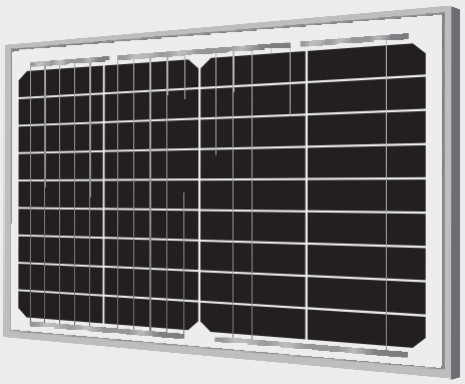
* STC: Irradiance 1000W/m², AM1.5 TNectrum, module temperature 25°C
* NOCT:Nominal operating cell temperature (the data is only for reference)

Dimensions Of PV Module



*All Dimensions in mm

Mechanical Data	TN10M-36
Cells	Mono 78×22.5 mm
No. of cells and connections	36(4×9)
Module dimension	275×361×25 mm 10.83×14.21×0.98 inch
Weight	1.2 kg
No. of Mounting Holes	4



25 25-year guarantee for 80% rated power

10 10-year product workmanship warranty

10 10-year guarantee for 90% rated power

Features

- Excellent power generation performance
- Nominal 12V DC for standard output.
- Heavy-duty anodized frames.
- High tranTNarent low-iron,tempered glass.

Applications

- Traffic & Safety
- Federal Government
- Agricultural
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry

Certificates

Solar panel

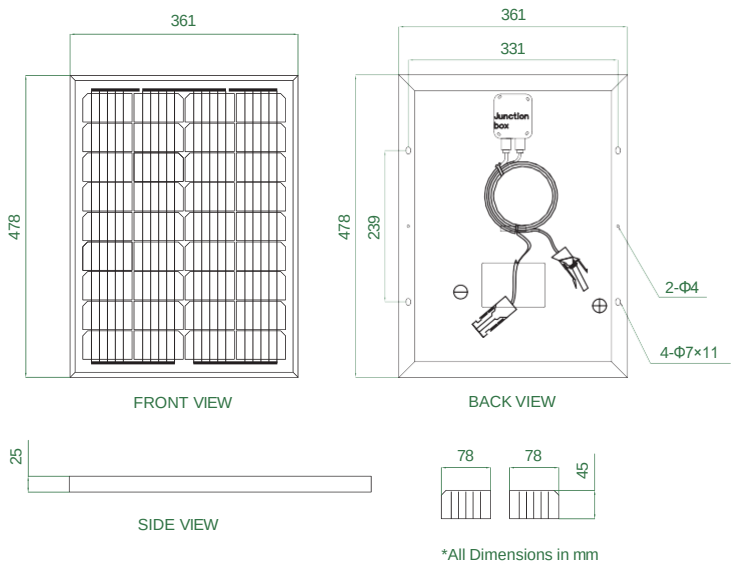
TN20M-36

High Efficiency Monocrystalline PV Module

Electrical Data	TN20M-36
Maximum power (Pmax)	20W
Voltage at Pmax (Vmp)	17.88V
Current at Pmax (Imp)	1.12A
Open-circuit voltage (Voc)	22.20V
Short-circuit current (Isc)	1.24A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V DC
Power tolerance	+ 3%

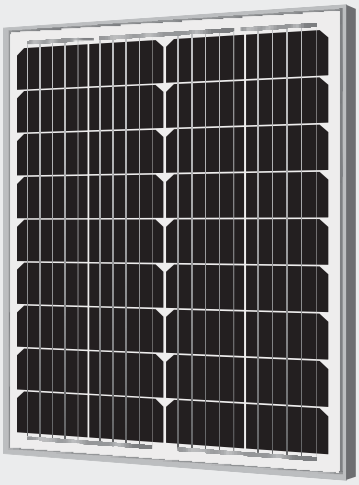
* STC: Irradiance 1000W/m², AM1.5 TNectrum, module temperature 25°C
* NOCT:Nominal operating cell temperature (the data is only for reference)

Dimensions Of PV Module



*All Dimensions in mm

Mechanical Data	TN20M-36
Cells	Mono 78×45 mm
No. of cells and connections	36(4×9)
Module dimension	478×361×25 mm 10.67×14.21×0.98 inch
Weight	2 kg
No. of Mounting Holes	4



25 25-year guarantee for 80% rated power

10 10-year product workmanship warranty

10 10-year guarantee for 90% rated power

Features

- Excellent power generation performance
- Nominal 12V DC for standard output.
- Heavy-duty anodized frames.
- High tranTNarent low-iron,tempered glass.

Applications

- Traffic & Safety
- Federal Government
- Agricultural
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry

Characteristics

Solar panel

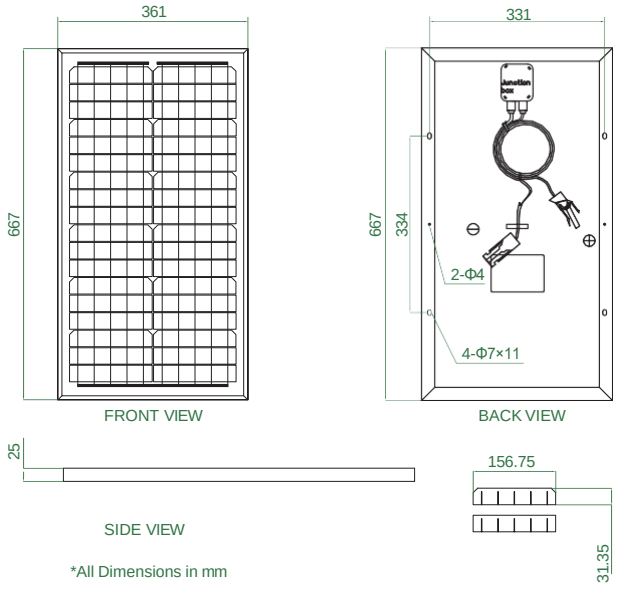
TN30M-36

High Efficiency Monocrystalline PV Module

Electrical Data	TN30M-36
Maximum power (Pmax)	30W
Voltage at Pmax (Vmp)	17.90V
Current at Pmax (Imp)	1.68A
Open-circuit voltage (Voc)	22.37V
Short-circuit current (Isc)	1.82A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V DC
Power tolerance	+ 3%

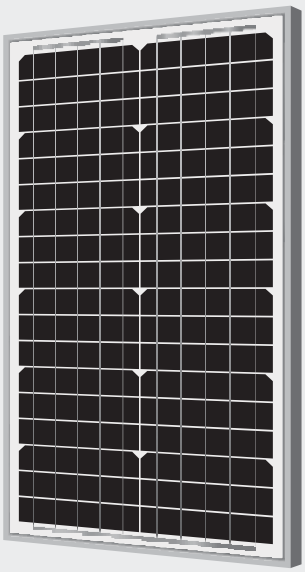
* STC: Irradiance 1000W/m², AM1.5 TNectrum, module temperature 25°C
* NOCT:Nominal operating cell temperature (the data is only for reference)

Dimensions Of PV Module



*All Dimensions in mm

TNecifications	TN30M-36
Cells	Mono 156.75×31.35 mm
No. of cells and connections	36(2×18)
Module dimension	667×361×25 mm 26.26×14.21×0.98 inch
Weight	2.8 kg
No. of Mounting Holes	4



25 25-year guarantee for 80% rated power

10 10-year product workmanship warranty

10 10-year guarantee for 90% rated power

Features

- Excellent power generation performance
- Nominal 12V DC for standard output.
- Heavy-duty anodized frames.
- High tranTNarent low-iron,tempered glass.

Applications

- Traffic & Safety
- Federal Government
- Agricultural
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry

Characteristics

Solar panel

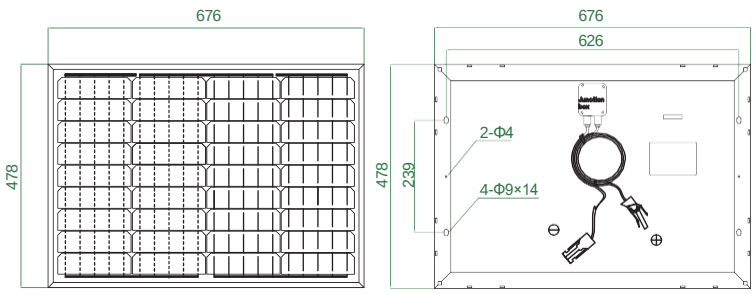
TN40M-36

High Efficiency Monocrystalline PV Module

Electrical Data	TN40M-36
Maximum power (Pmax)	40W
Voltage at Pmax (Vmp)	18.10V
Current at Pmax (Imp)	2.21A
Open-circuit voltage (Voc)	22.62V
Short-circuit current (Isc)	2.48A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V DC
Power tolerance	+ 3%

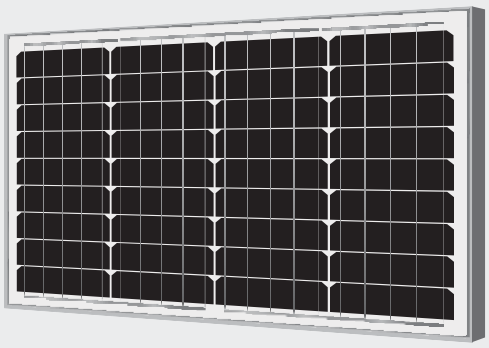
* STC: Irradiance 1000W/m², AM1.5 TNectrum, module temperature 25°C
* NOCT:Nominal operating cell temperature (the data is only for reference)

Dimensions Of PV Module



*All Dimensions in mm

TNecifications	TN40M-36
Cells	Mono 156.75×45 mm
No. of cells and connections	36(4×9)
Module dimension	478×676×25 mm 18.81×26.61×0.98 inch
Weight	3.6 kg
No. of Mounting Holes	4



25 25-year guarantee for 80% rated power

10 10-year product workmanship warranty

10 10-year guarantee for 90% rated power

Features

- Excellent power generation performance
- Nominal 12V DC for standard output.
- Heavy-duty anodized frames.
- High tranTNarent low-iron,tempered glass.

Applications

- Traffic & Safety
- Federal Government
- Agricultural
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry

Characteristics

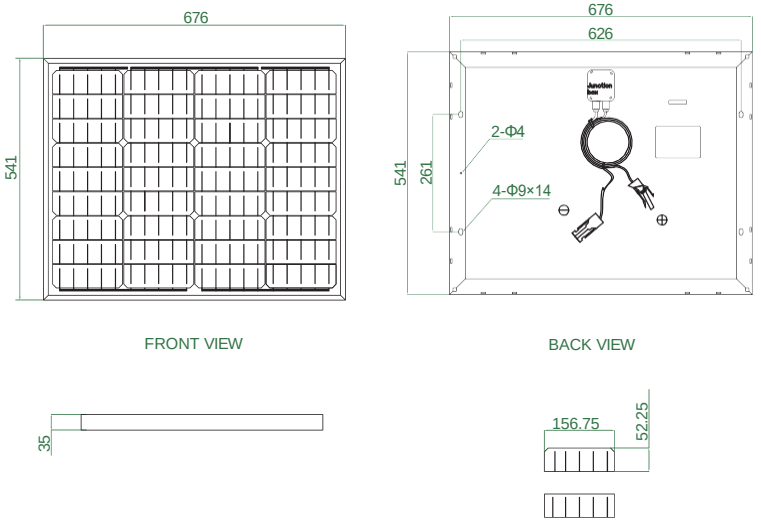
TN50M-36

High Efficiency Monocrystalline PV Module

Electrical Data	TN50M-36
Maximum power (Pmax)	50W
Voltage at Pmax (Vmp)	18.32V
Current at Pmax (Imp)	2.73A
Open-circuit voltage (Voc)	22.80V
Short-circuit current (Isc)	2.93A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V DC
Power tolerance	+ 3%

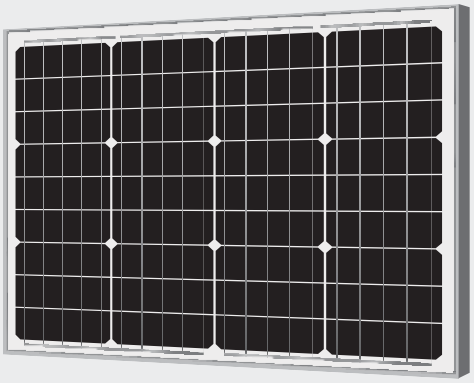
* STC: Irradiance 1000W/m², AM1.5 TNectrum, module temperature 25°C
* NOCT:Nominal operating cell temperature (the data is only for reference)

Dimensions Of PV Module



*All Dimensions in mm

TNecifications	TN50M-36
Cells	Mono 156.75×52.25 mm
No. of cells and connections	36(4×9)
Module dimension	541×676×35 mm 21.30×26.61×1.38 inch
Weight	4.6 kg
No. of Mounting Holes	4



25 25-year guarantee for 80% rated power

10 10-year product workmanship warranty

10 10-year guarantee for 90% rated power

Features

- Excellent power generation performance
- Nominal 12V DC for standard output.
- Heavy-duty anodized frames.
- High tranTNarent low-iron,tempered glass.

Applications

- Traffic & Safety
- Federal Government
- Agricultural
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry

Characteristics

Solar panel

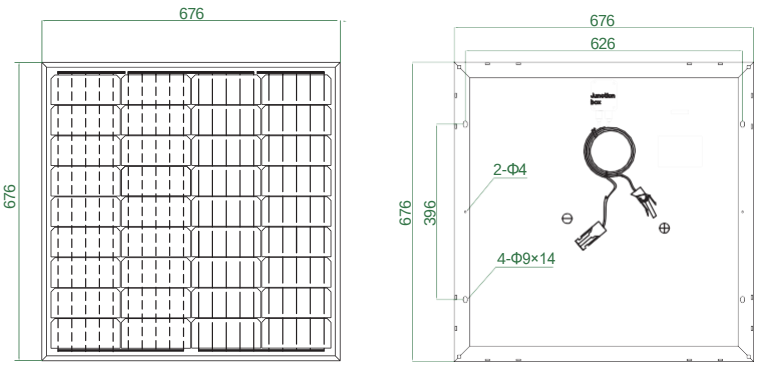
TN65M-36

High Efficiency Monocrystalline PV Module

Electrical Data	TN65M-36
Maximum power (Pmax)	65W
Voltage at Pmax (Vmp)	18.42V
Current at Pmax (Imp)	3.53A
Open-circuit voltage (Voc)	22.80V
Short-circuit current (Isc)	3.77A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V DC
Power tolerance	+ 3%

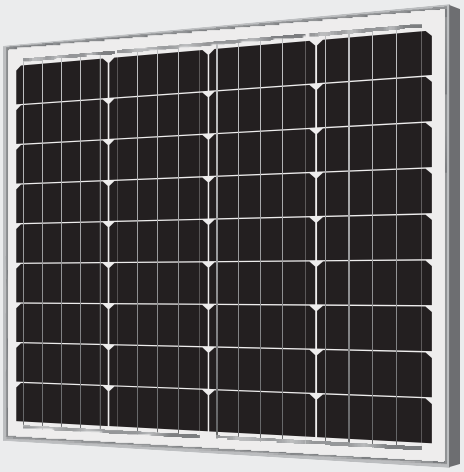
* STC: Irradiance 1000W/m², AM1.5 TNectrum, module temperature 25°C
* NOCT:Nominal operating cell temperature (the data is only for reference)

Dimensions Of PV Module



*All Dimensions in mm

TNecifications	TN65M-36
Cells	Mono 156.75×67 mm
No. of cells and connections	36(4×9)
Module dimension	676×676×35 mm 26.61×26.61×1.38 inch
Weight	5.2 kg (11.46 lbs)
No. of Mounting Holes	4
No. of WaterTNout Holes	16



25 25-year guarantee for 80% rated power

10 10-year product workmanship warranty

10 10-year guarantee for 90% rated power

Features

- Excellent power generation performance
- Nominal 12V DC for standard output.
- Heavy-duty anodized frames.
- High tranTNarent low-iron,tempered glass.

Applications

- Traffic & Safety
- Federal Government
- Agricultural
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry

Characteristics

Solar panel

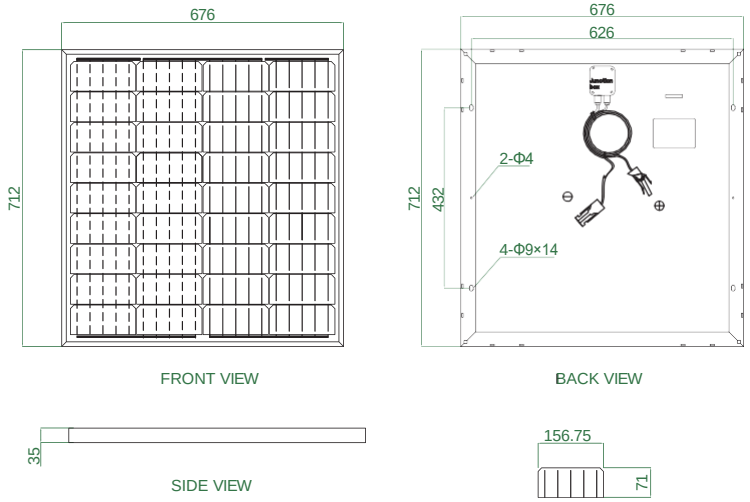
TN70M-36

High Efficiency Monocrystalline PV Module

Electrical Data	TN70M-36
Maximum power (Pmax)	70W
Voltage at Pmax (Vmp)	18.54V
Current at Pmax (Imp)	3.78A
Open-circuit voltage (Voc)	22.86V
Short-circuit current (Isc)	4.03A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V DC
Power tolerance	+ 3%

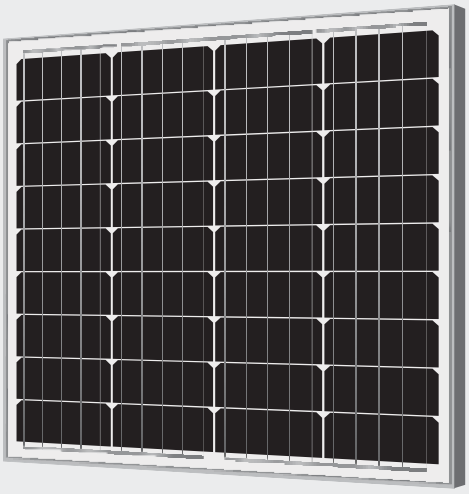
* STC: Irradiance 1000W/m², AM1.5 TNectrum, module temperature 25°C
* NOCT:Nominal operating cell temperature (the data is only for reference)

Dimensions Of PV Module



*All Dimensions in mm

TNecifications	TN70M-36
Cells	Mono 156.75×71 mm
No. of cells and connections	36 (4×9)
Module dimension	712×676×35 mm 28.19×26.61×1.38 inch
Weight	5.5 kg
No. of Mounting Holes	4
No. of WaterTNout Holes	16



25 25-year guarantee for 80% rated power

10 10-year product workmanship warranty

10 10-year guarantee for 90% rated power

Features

- Excellent power generation performance
- Nominal 12V DC for standard output.
- Suitable for: solar kits,rvs,boats and cabins.
- Heavy-duty anodized frames.
- High tranTNarent low-iron,tempered glass.

Applications

- Traffic & Safety
- Federal Government
- Agricultural
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry

Characteristics

Solar panel

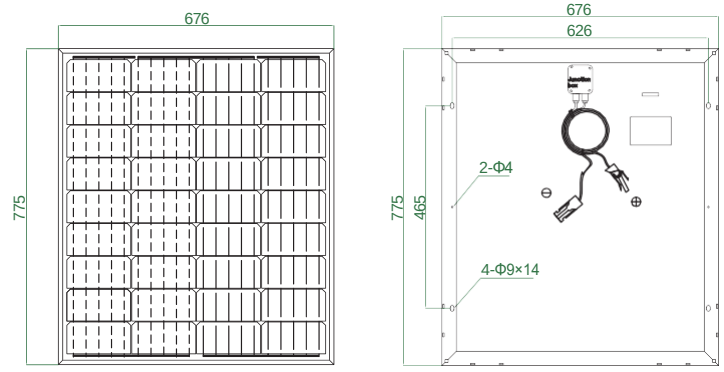
TN75M-36

High Efficiency Monocrystalline PV Module

Electrical Data	TN75M-36
Maximum power (Pmax)	75W
Voltage at Pmax (Vmp)	18.30V
Current at Pmax (Imp)	4.10A
Open-circuit voltage (Voc)	22.80V
Short-circuit current (Isc)	4.39A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V DC
Power tolerance	+ 3%

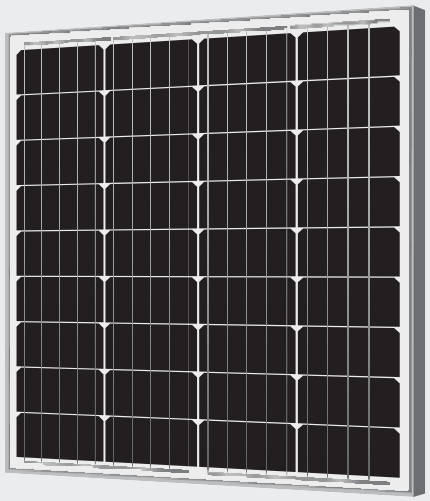
* STC: Irradiance 1000W/m², AM1.5 TNectrum, module temperature 25°C
* NOCT:Nominal operating cell temperature (the data is only for reference)

Dimensions Of PV Module



*All Dimensions in mm

TNecifications	TN75M-36
Cells	Mono 156.75×78 mm
No. of cells and connections	36(4×9)
Module dimension	775×676×35 mm 30.1×26.61×1.38 inch
Weight	6 kg
No. of Mounting Holes	4
No. of WaterTNout Holes	16



25 25-year guarantee for 80% rated power

10 10-year product workmanship warranty

10 10-year guarantee for 90% rated power

Features

- Excellent power generation performance
- Nominal 12V DC for standard output.
- Heavy-duty anodized frames.
- High tranTNarent low-iron,tempered glass.

Applications

- Traffic & Safety
- Federal Government
- Agricultural
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry

Characteristics

Solar panel

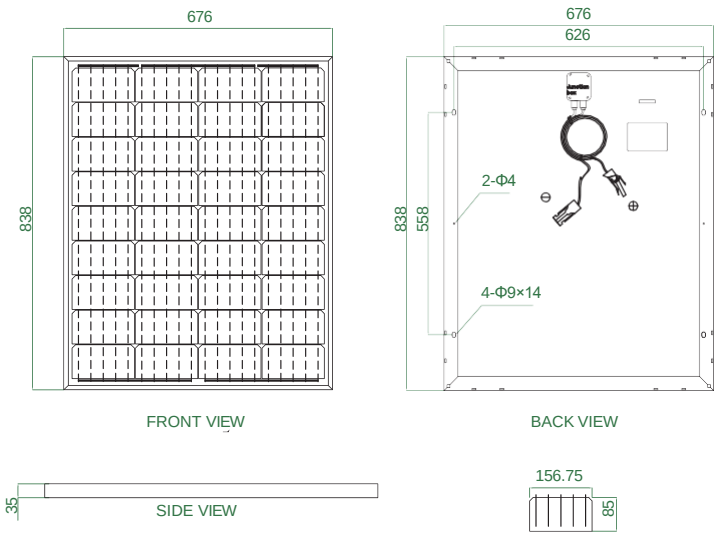
TN80M-36

High Efficiency Monocrystalline PV Module

Electrical Data	TN80M-36
Maximum power (Pmax)	80W
Voltage at Pmax (Vmp)	18.10V
Current at Pmax (Imp)	4.42A
Open-circuit voltage (Voc)	22.60V
Short-circuit current (Isc)	4.74A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V DC
Power tolerance	+ 3%

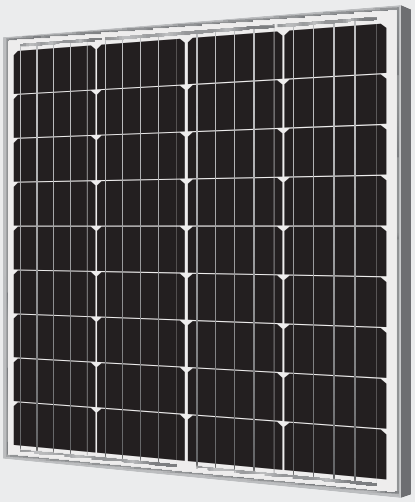
* STC: Irradiance 1000W/m², AM1.5 TNectrum, module temperature 25°C
* NOCT:Nominal operating cell temperature (the data is only for reference)

Dimensions Of PV Module



*All Dimensions in mm

TNecifications	TN80M-36
Cells	Mono 156.75×85 mm
No. of cells and connections	36(4×9)
Module dimension	838×676×35 mm 34.49×26.61×1.38 inch
Weight	6.5 kg
No. of Mounting Holes	4
No. of WaterTNout	16



25 25-year guarantee for 80% rated power

10 10-year product workmanship warranty

10 10-year guarantee for 90% rated power

Features

- Excellent power generation performance
- Nominal 12V DC for standard output.
- Heavy-duty anodized frames.
- High tranTNarent low-iron,tempered glass.

Applications

- Traffic & Safety
- Federal Government
- Agricultural
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry

Characteristics

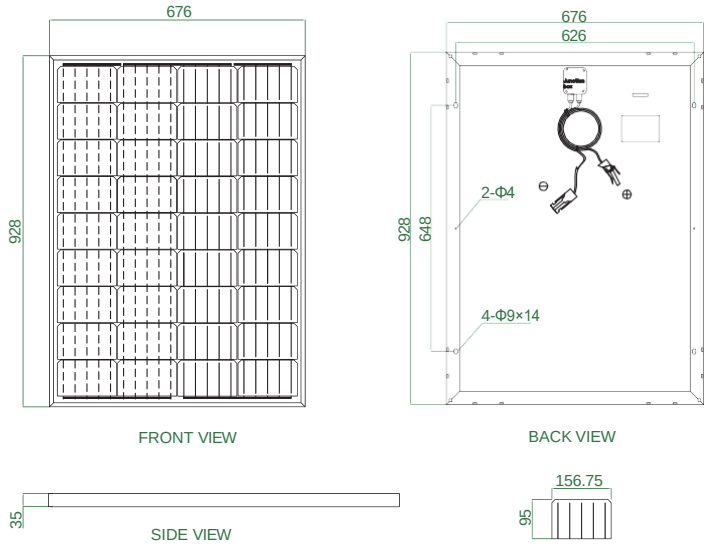
TN90M-36

High Efficiency Monocrystalline PV Module

Electrical Data	TN90M-36
Maximum power (Pmax)	90W
Voltage at Pmax (Vmp)	18.20V
Current at Pmax (Imp)	4.95A
Open-circuit voltage (Voc)	22.72V
Short-circuit current (Isc)	5.30A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V DC
Power tolerance	+ 3%

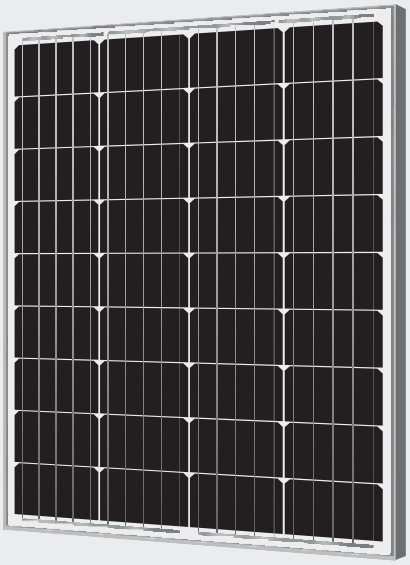
* STC: Irradiance 1000W/m², AM1.5 TNectrum, module temperature 25°C
* NOCT:Nominal operating cell temperature (the data is only for reference)

Dimensions Of PV Module



*All Dimensions in mm

TNecifications	TN90M-36
Cells	Mono 156.75×95 mm
No. of cells and connections	36(4×9)
Module dimension	928×676×35 mm 36.54×26.61×1.38 inch
Weight	7.2 kg
No. of Mounting Holes	4
No. of WaterTNout Holes	16



25 25-year guarantee for 80% rated power

10 10-year product workmanship warranty

10 10-year guarantee for 90% rated power

Features

- Excellent power generation performance
- Nominal 12V DC for standard output.
- Heavy-duty anodized frames.
- High tranTNarent low-iron,tempered glass.

Applications

- Traffic & Safety
- Federal Government
- Agricultural
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry

Characteristics

Solar panel

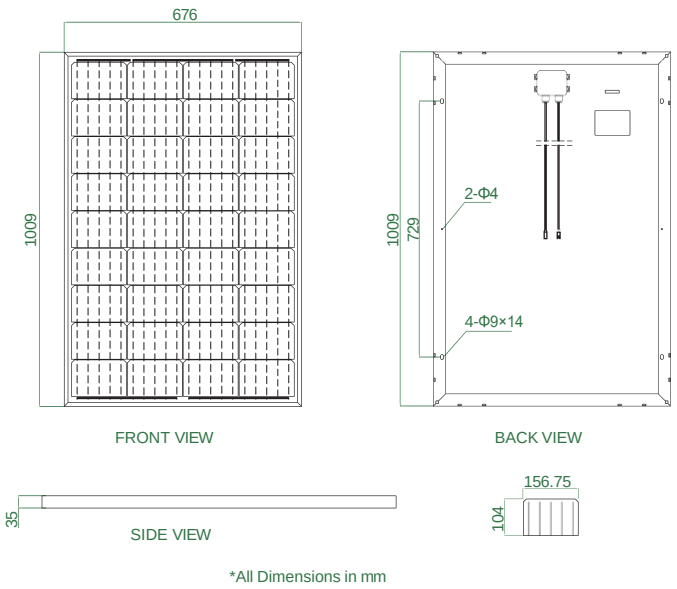
TN100M-36

High Efficiency Monocrystalline PV Module

Electrical Data	TN100M-36
Maximum power (Pmax)	100W
Voltage at Pmax (Vmp)	18.29V
Current at Pmax (Imp)	5.47A
Open-circuit voltage (Voc)	22.80V
Short-circuit current (Isc)	5.85A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V DC
Power tolerance	+ 3%

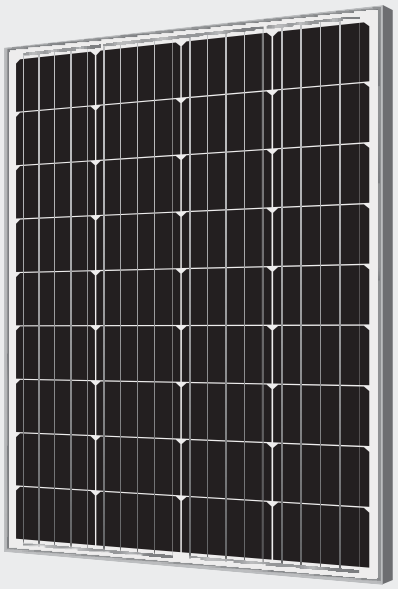
* STC: Irradiance 1000W/m², AM1.5 TNectrum, module temperature 25°C
* NOCT:Nominal operating cell temperature (the data is only for reference)

Dimensions Of PV Module



*All Dimensions in mm

TNecifications	TN100M-36
Cells	Mono 156.75×104 mm
No. of cells and connections	36(4×9)
Module dimension	1009×676×35 mm 39.72×26.61×1.38 inch
Weight	7.8 kg
No. of Mounting Holes	4
No. of WaterTNout Holes	16



25 25-year guarantee for 80% rated power

10 10-year product workmanship

10 10-year guarantee for 90% rated power

Features

- Excellent power generation performance
- Nominal 12V DC for standard output.
- Heavy-duty anodized frames.
- High tranTNarent low-iron,tempered glass.

Applications

- Traffic & Safety
- Federal Government
- Agricultural
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry

Characteristics

Solar panel

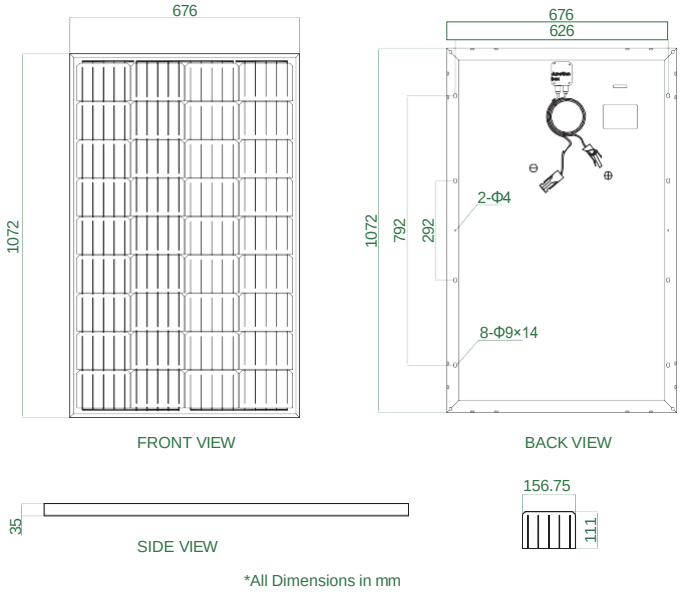
TN110M-36

High Efficiency Monocrystalline PV Module

Electrical Data	TN110M-36
Maximum power (Pmax)	110W
Voltage at Pmax (Vmp)	18.55V
Current at Pmax (Imp)	5.93A
Open-circuit voltage (Voc)	22.92V
Short-circuit current (Isc)	6.34A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V DC
Power tolerance	+ 3%

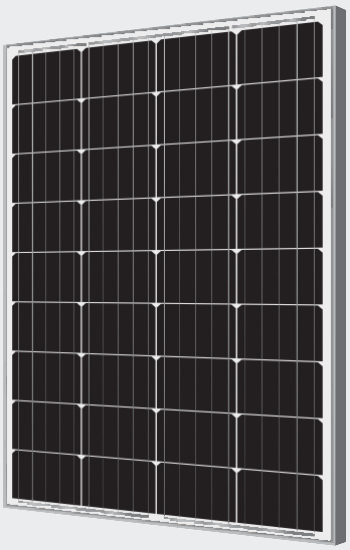
* STC: Irradiance 1000W/m², AM1.5 TNectrum, module temperature 25°C
* NOCT:Nominal operating cell temperature (the data is only for reference)

Dimensions Of PV Module



*All Dimensions in mm

TNecifications	TN110M-36
Cells	Mono 156.75×111 mm
No. of cells and connections	36(4×9)
Module dimension	1072×676×35 mm 42.20×26.61×1.38 inch
Weight	8.3 kg
No. of Mounting Holes	4
No. of WaterTNout Holes	16



25 25-year guarantee for 80% rated power

10 10-year product workmanship warranty

10 10-year guarantee for 90% rated power

Features

- Excellent power generation performance
- Nominal 12V DC for standard output.
- Heavy-duty anodized frames.
- High tranTNarent low-iron,tempered glass.

Applications

- Traffic & Safety
- Federal Government
- Agricultural
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry

Characteristics

Solar panel

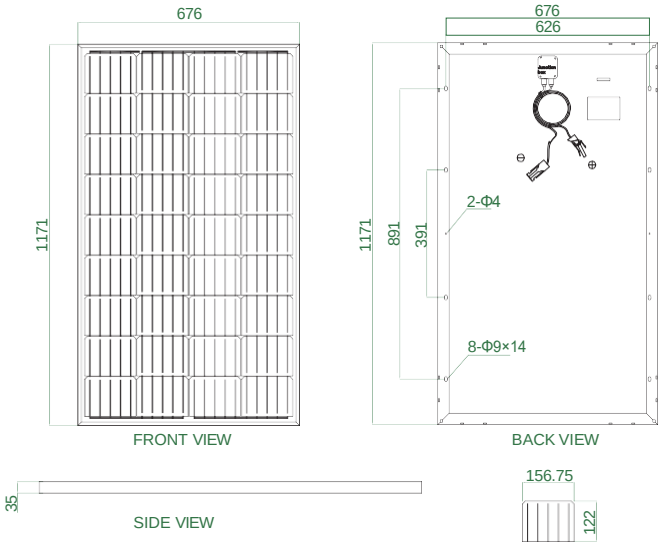
TN120M-36

High Efficiency Monocrystalline PV Module

Electrical Data	TN120M-36
Maximum power (Pmax)	120W
Voltage at Pmax (Vmp)	18.58V
Current at Pmax (Imp)	6.46A
Open-circuit voltage (Voc)	22.86V
Short-circuit current (Isc)	6.92A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V DC
Power tolerance	+ 3%

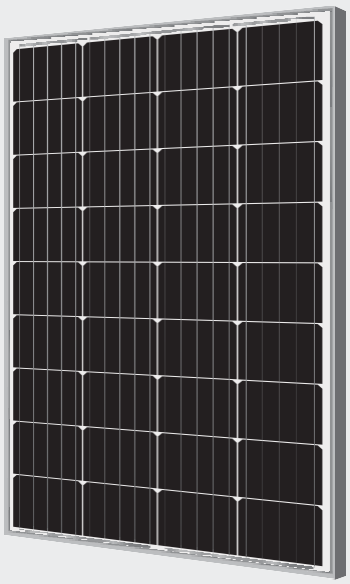
* STC: Irradiance 1000W/m², AM1.5 TNectrum, module temperature 25°C
* NOCT:Nominal operating cell temperature (the data is only for reference)

Dimensions Of PV Module



*All Dimensions in mm

TNecifications	TN120M-36
Cells	Mono 156.75×122 mm
No. of cells and connections	36(4×9)
Module dimension	1171×676×35 mm 46.10×26.61×1.38 inch
Weight	9 kg
No. of Mounting Holes	8
No. of WaterTNout Holes	16



25 25-year guarantee for 80% rated power

10 10-year product workmanship warranty

10 10-year guarantee for 90% rated power

Features

- Excellent power generation performance
- Nominal 12V DC for standard output.
- Heavy-duty anodized frames.
- High tranTNarent low-iron,tempered glass.

Applications

- Traffic & Safety
- Federal Government
- Agricultural
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry

Characteristics

Solar panel

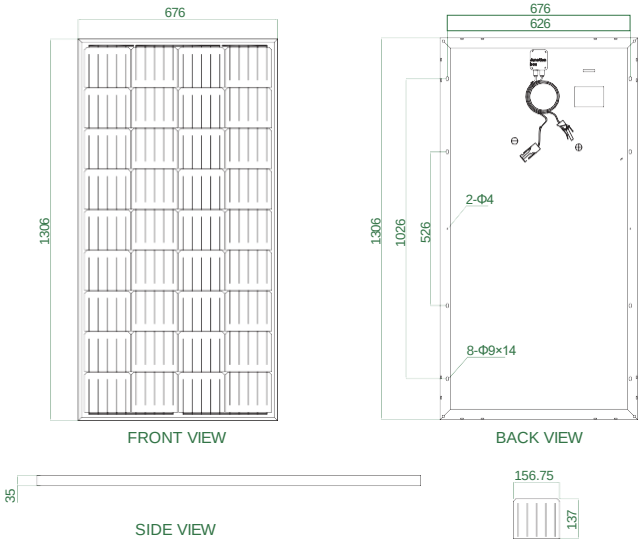
TN140M-36

High Efficiency Monocrystalline PV Module

Electrical Data	TN140M-36
Maximum power (Pmax)	140W
Voltage at Pmax (Vmp)	18.80V
Current at Pmax (Imp)	7.45A
Open-circuit voltage (Voc)	22.99V
Short-circuit current (Isc)	7.87A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V DC
Power tolerance	+ 3%

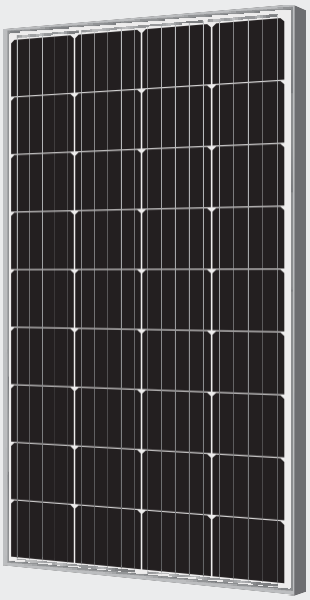
* STC: Irradiance 1000W/m², AM1.5 TNectrum, module temperature 25°C
* NOCT:Nominal operating cell temperature (the data is only for reference)

Dimensions Of PV Module



*All Dimensions in mm

TNecifications	TN140M-36
Cells	Mono 156.75×137 mm
No. of cells and connections	36(4×9)
Module dimension	1306×676×35 mm 51.42×26.61×1.38 inch
Weight	10.1 kg
No. of Mounting Holes	8
No. of WaterTNout Holes	16



25 25-year guarantee for 80% rated power

10 10-year product workmanship warranty

10 10-year guarantee for 90% rated power

Features

- Excellent power generation performance
- Nominal 12V DC for standard output.
- Heavy-duty anodized frames.
- High tranTNarent low-iron,tempered glass.

Applications

- Traffic & Safety
- Federal Government
- Agricultural
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry

Characteristics

Solar panel

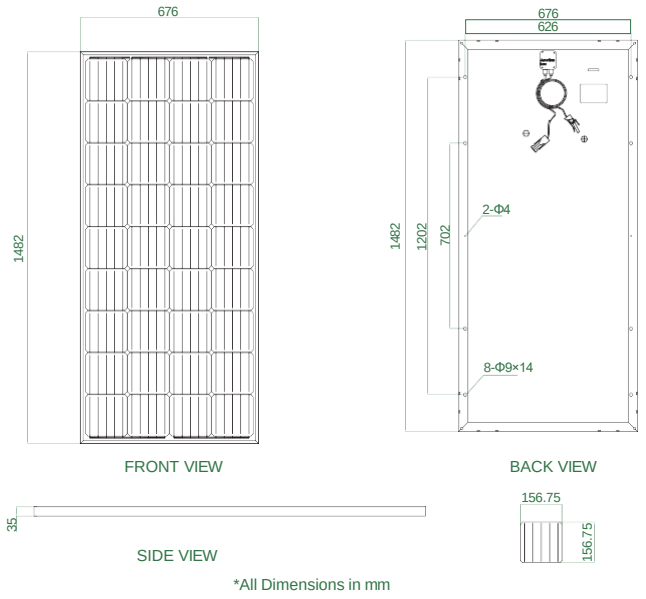
TN150M-36

High Efficiency Monocrystalline PV Module

Electrical Data	TN150M-36
Maximum power (Pmax)	150W
Voltage at Pmax (Vmp)	18.30V
Current at Pmax (Imp)	8.20A
Open-circuit voltage (Voc)	22.80V
Short-circuit current (Isc)	8.78A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V DC
Power tolerance	+ 3%

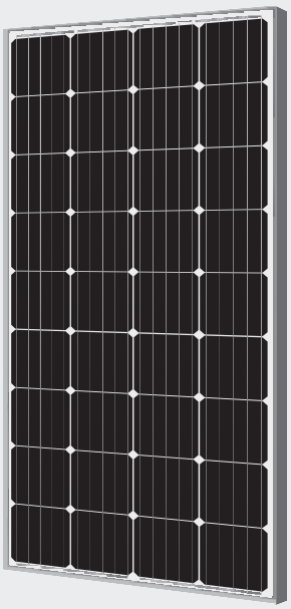
* STC: Irradiance 1000W/m², AM1.5 TNectrum, module temperature 25°C
* NOCT:Nominal operating cell temperature (the data is only for reference)

Dimensions Of PV Module



*All Dimensions in mm

TNecifications	TN150M-36
Cells	Mono 156.75×156.75 mm
No. of cells and connections	36(4×9)
Module dimension	1482×676×35 mm 58.35×26.61×1.38 inch
Weight	11.5 kg
No. of Mounting Holes	8
No. of WaterTNout Holes	16



25 25-year guarantee for 80% rated power

10 10-year product workmanship warranty

10 10-year guarantee for 90% rated power

Features

- Excellent power generation performance
- Nominal 12V DC for standard output.
- Heavy-duty anodized frames.
- High tranTNarent low-iron,tempered glass.

Applications

- Traffic & Safety
- Federal Government
- Agricultural
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry

Characteristics

Solar panel

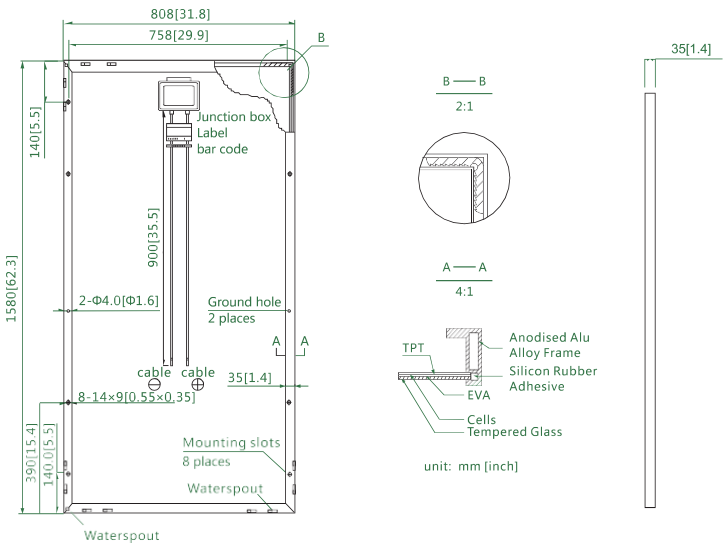
TN200M-72

High Efficiency Monocrystalline PV Module

Electrical Data	TN200M-72
Maximum power (Pmax)	200W
Voltage at Pmax (Vmp)	37.89V
Current at Pmax (Imp)	5.28A
Open-circuit voltage (Voc)	45.48V
Short-circuit current (Isc)	5.66A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V DC
Power tolerance	+ 3%

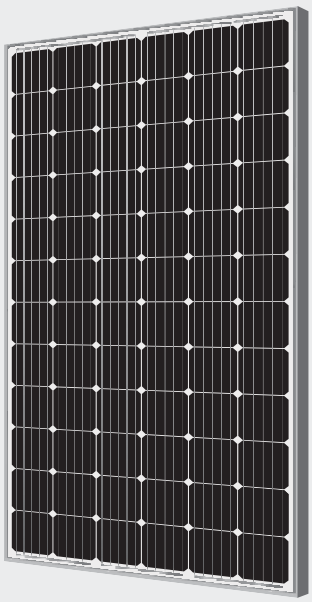
* STC: Irradiance 1000W/m², AM1.5 TNectrum, module temperature 25°C
* NOCT:Nominal operating cell temperature (the data is only for reference)

Dimensions Of PV Module



*All Dimensions in mm

TNecifications	TN200M-72
Cells	Mono 125×125 mm
No. of cells and connections	72(6×12)
Module dimension	1580×808×35 mm 62.20×31.81×1.38 inch
Weight	15 kg
No. of Mounting Holes	8
No. of WaterTNout Holes	16



25 25-year guarantee for 80% rated power

10 10-year product workmanship warranty

10 10-year guarantee for 90% rated power

Features

- Excellent power generation performance
- Nominal 12V DC for standard output.
- Heavy-duty anodized frames.
- High tranTNarent low-iron,tempered glass.

Applications

- Traffic & Safety
- Federal Government
- Agricultural
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry

Characteristics

Solar panel

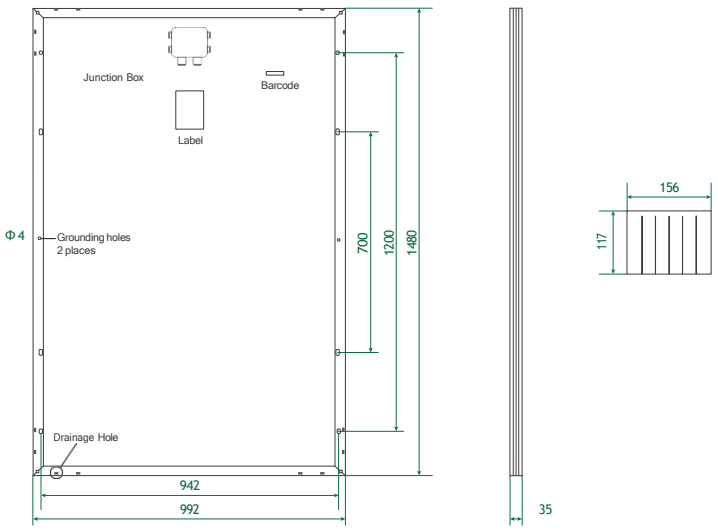
TN250M-72

High Efficiency Monocrystalline PV Module

Electrical Data	TN250M-72
Maximum power (Pmax)	250W
Voltage at Pmax (Vmp)	37.60V
Current at Pmax (Imp)	6.65A
Open-circuit voltage (Voc)	46.20V
Short-circuit current (Isc)	7.18A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V DC
Power tolerance	+ 3%

* STC: Irradiance 1000W/m², AM1.5 TNectrum, module temperature 25℃
* NOCT:Nominal operating cell temperature (the data is only for reference)

Dimensions Of PV Module



*All Dimensions in mm

TNecifications	TN250M-72
Cells	Mono 117×156 mm
No. of cells and connections	72(6×12)
Module dimension	1480×992×35 mm
Weight	17 kg
No. of Mounting Holes	8
No. of WaterTNout Holes	16

25 25-year guarantee for 80% rated power

10 10-year product workmanship warranty

10 10-year guarantee for 90% rated power

Features

- Excellent power generation performance
- Nominal 12V DC for standard output.
- Heavy-duty anodized frames.
- High tranTNarent low-iron,tempered glass.

Applications

- Traffic & Safety
- Federal Government
- Agricultural
- Security
- Telecommunications
- Water and Wastewater
- Weather & Environmental Monitoring
- RV Camper
- Emergency Power
- Telemetry

Characteristics