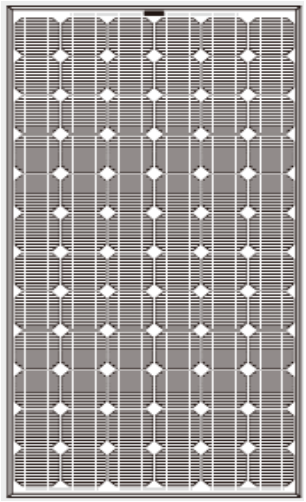
Lighthouse WorldWide, LLC
The Right Light

# DT175-24

# Photovoltaic Module

DT155-24 DT160-24 DT165-24
DT170-24 DT175-24 DT180-24



## Specifications

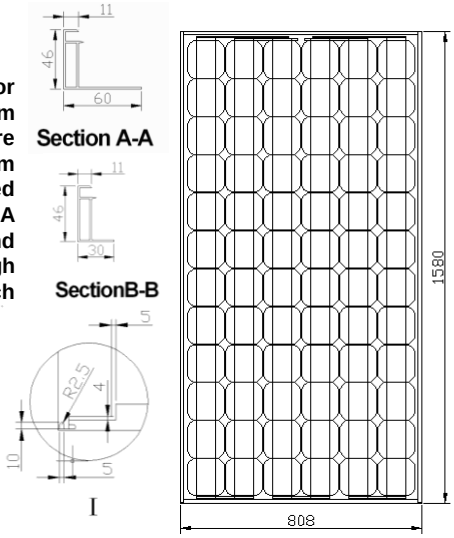
| | |
|---|---|
| **cell** | Monocrystalline silicon solar cells 125×125 |
| **No. of cells** | 72(6×12) |
| **Dimension of module(mm)** | 1580×808×46 or 1580×808×35 |
| **Weight** | 16kg or 15.5kg |

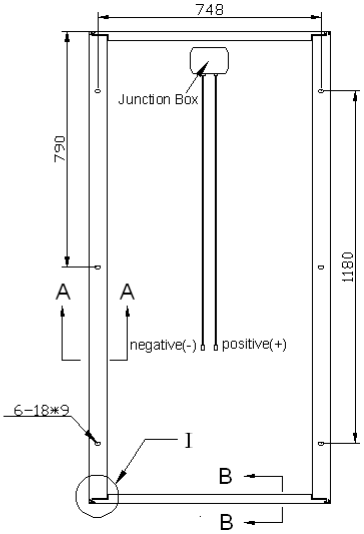
## Characteristics

| **Module** | DT155-24 | DT160-24 | DT165-24 | DT170-24 | DT175-24 | DT180-24 |
|---|---|---|---|---|---|---|
| **Maximum power at STC(Pm)** | 155Wp | 160Wp | 165Wp | 170Wp | 175Wp | 180Wp |
| **Maximum power voltage(Vmp)** | 34.4V | 34.5V | 35.4V | 35.6V | 35.8V | 36.0V |
| **Maximum power current(Imp)** | 4.51A | 4.64A | 4.66A | 4.78A | 4.89A | 5.00A |
| **Open circuit voltage(Voc)** | 43.2V | 43.2V | 43.6V | 44.2V | 44.2V | 44.8V |
| **Short circuit current(Isc)** | 4.98A | 5.06A | 5.08A | 5.15A | 5.26A | 5.30A |
| **Maximum system voltage** | 1000V | | | | | |
| **Operating temperature** | -40℃~85℃ | | | | | |
| **Resistances** | 227g steel ball fall down from 1m height and 60m/s wind | | | | | |
| **Warranty** | 2 years product warranty and 25 years 80% of power | | | | | |

**STC: Irradiancy 1000W/m², Module temperature 25℃, AM=1.5**

**Photovoltaic (PV) Modules are designed for outdoor use to generate electrical energy from light. Laminated PV modules, DTX-24 series, are mainly composed of 72 pieces of 125mm*125mm solar monocrystalline cells in series, tempered and high transparency glass, qualified EVA encapsulation film, substrate (back surface) and anodized aluminum alloy frames. With high efficiency, DTX-24 series have good features, such as long life, high weather proof, easy installatio and etc. they can be widely used in solar hon systems, YV repeater stations, street lightin Measuring/Monitoring systems, and PV plants.**





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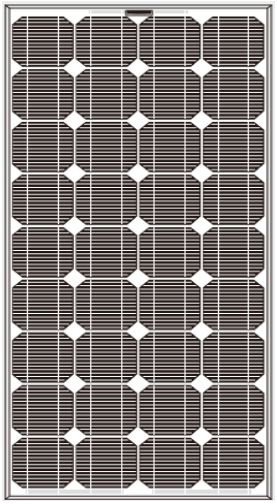
# DT080-12

# Photovoltaic Module

DT075-12 DT080-12 DT085-12
DT090-12



## Specifications

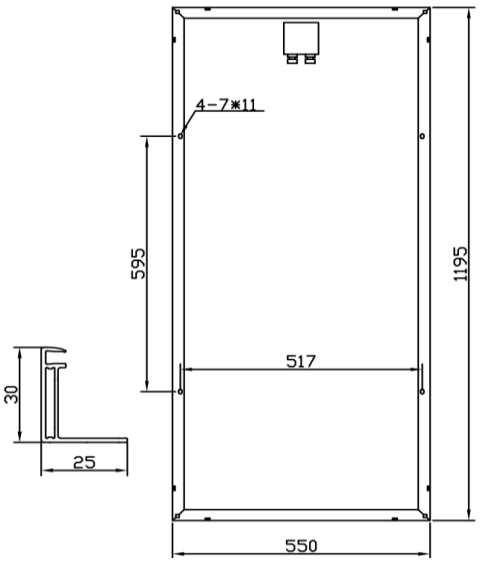
| | |
|---|---|
| **cell** | Monocrystalline silicon solar cells 125×125 |
| **No. of cells** | 36(4×9) |
| **Dimension of module(mm)** | 1195×550×30 |
| **Weight** | 8kg |

## Characteristics

| **Module** | DT075-12 | DT080-12 | DT085-12 | DT090-12 |
|---|---|---|---|---|
| **Maximum power at STC(Pm)** | 75Wp | 80Wp | 85Wp | 90Wp |
| **Maximum power voltage(Vmp)** | 17.3V | 17.5V | 17.8V | 18.0V |
| **Maximum power current(Imp)** | 4.33A | 4.58A | 4.80A | 5.00A |
| **Open circuit voltage(Voc)** | 21.7V | 21.9V | 22.2V | 22.4V |
| **Short circuit current(Isc)** | 4.72A | 4.95A | 5.15A | 5.30A |
| **Maximum system voltage** | 700V | | | |
| **Operating temperature** | -40℃~85℃ | | | |
| **Resistances** | 227g steel ball fall down from 1m height and 60m/s wind | | | |
| **Warranty** | 2 years product warranty and 25 years 80% of power | | | |

**STC: Irradiancy 1000W/m², Module temperature 25℃, AM=1.5**

**Photovoltaic (PV) Modules are designed for outdoor use to generate electrical energy from light. Laminated PV modules, DTX-12 series, are mainly composed of 36 pieces of 125mm*125mm solar monocrystalline cells in series, tempered and high transparency glass, qualified EVA encapsulation film, substrate (back surface) and anodized aluminum alloy frames. With high efficiency, DTX-12 series have good features, such as long life, high weather proof, easy installation, and etc. they can be widely used in solar home systems, YV repeater stations, street lighting, Measuring/Monitoring systems, and PV plants.**

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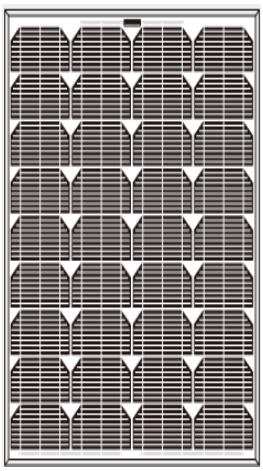
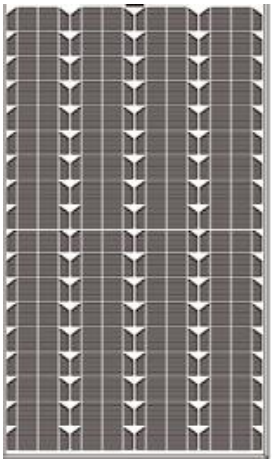
# Photovoltaic Module

# DT050-12

DT050-12 DT055-12 DT060-12





## Specifications

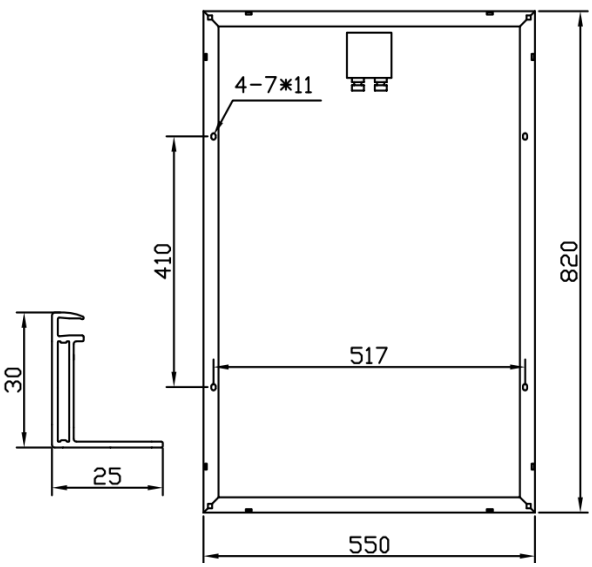
| | |
|---|---|
| **cell** | Monocrystalline silicon solar cells<br>125×83.3 125×41.7 |
| **No. of cells** | 36(4×9) 72(4×18) |
| **Dimension of module(mm)** | 820×550×30 |
| **Weight** | 6kg |

## Characteristics

| **Module** | DT050-12 | DT055-12 | DT060-12 |
|---|---|---|---|
| **Maximum power at STC(Pm)** | 50Wp | 55Wp | 60Wp |
| **Maximum power voltage(Vmp)** | 17.3V | 17.6V | 18.0V |
| **Maximum power current(Imp)** | 2.89A | 3.12A | 3.33A |
| **Open circuit voltage(Voc)** | 21.7V | 22.0V | 22.4V |
| **Short circuit current(Isc)** | 3.14A | 3.34A | 3.54A |
| **Maximum system voltage** | 700V | | |
| **Operating temperature** | -40℃~85℃ | | |
| **Resistances** | 227g steel ball fall down from 1m height and 60m/s wind | | |
| **Warranty** | 2 years product warranty and 25 years 80% of power | | |

**STC: Irradiancy 1000W/m², Module temperature 25℃, AM=1.5**

**Photovoltaic (PV) Modules are designed for outdoor use to generate electrical energy from light. Laminated PV modules, DTX-12 series, are mainly composed of 36 pieces of 125mm*83.3mm or 72 pieces of 125mm*41.7mm solar monocrystalline cells in series, tempered and high transparency glass, qualified EVA encapsulation film, substrate (back surface) and anodized aluminum alloy frames. With high efficiency, DTX-12 series have good features, such as long life, high weather proof, easy installation, and etc. they can be widely used in solar home systems, YV repeater stations, street lighting, Measuring/Monitoring systems, and PV plants.**

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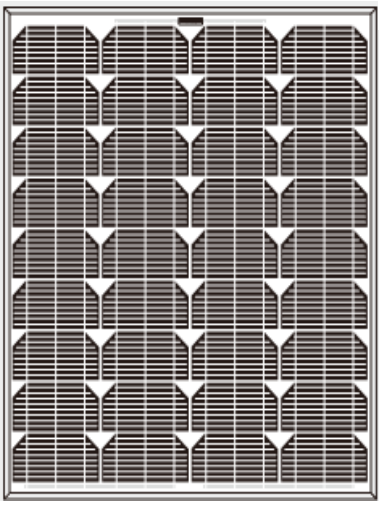
# DT040-12

# Photovoltaic Module

DT035-12 DT040-12 DT045-12



## Specifications

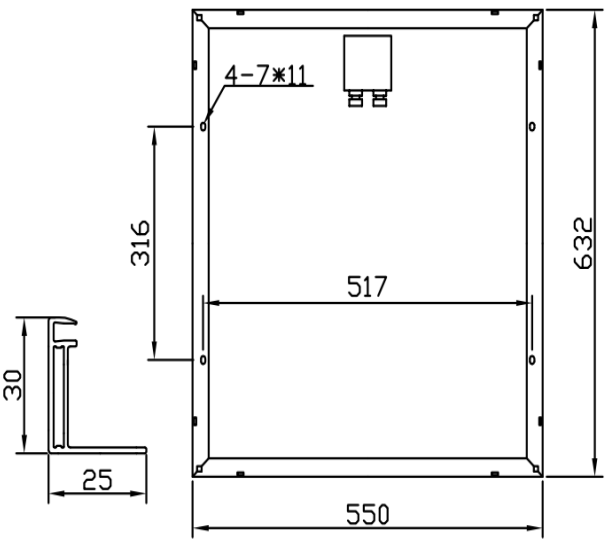
| | |
|---|---|
| **cell** | Monocrystalline silicon solar cells 125×62.5 |
| **No. of cells** | 36(4×9) |
| **Dimension of module(mm)** | 632×550×30 |
| **Weight** | 4.5kg |

## Characteristics

| **Module** | DT035-12 | DT040-12 | DT045-12 |
|---|---|---|---|
| **Maximum power at STC(Pm)** | 35Wp | 40Wp | 45Wp |
| **Maximum power voltage(Vmp)** | 17.0V | 17.2V | 18.0V |
| **Maximum power current(Imp)** | 2.06A | 2.33A | 2.50A |
| **Open circuit voltage(Voc)** | 21.0V | 21.6V | 22.4V |
| **Short circuit current(Isc)** | 2.33A | 2.50A | 2.65A |
| **Maximum system voltage** | 700V | | |
| **Operating temperature** | -40℃~85℃ | | |
| **Resistances** | 227g steel ball fall down from 1m height and 60m/s wind | | |
| **Warranty** | 2 years product warranty and 25 years 80% of power | | |

**STC: Irradiancy 1000W/m², Module temperature 25℃, AM=1.5**

**Photovoltaic (PV) Modules are designed for outdoor use to generate electrical energy from light. Laminated PV modules, DTX-12 series, are mainly composed of 36 pieces of 125mm*62.5mm solar monocrystalline cells in series, tempered and high transparency glass, qualified EVA encapsulation film, substrate (back surface) and anodized aluminum alloy frames. With high efficiency, DTX-12 series have good features, such as long life, high weather proof, easy installation, and etc. they can be widely used in solar home systems, YV repeater stations, street lighting, Measuring/Monitoring systems, and PV plants.**

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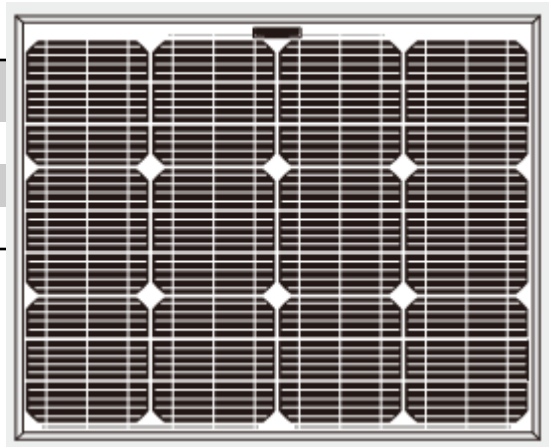
# Photovoltaic Module

# DT030-12

DT025-12 DT030-12

## Specifications

| | |
|---|---|
| **cell** | Monocrystalline silicon solar cells 125×41.7 |
| **No. of cells** | 36(4×9) |
| **Dimension of module(mm)** | 445×550×30 |
| **Weight** | 3.5kg |

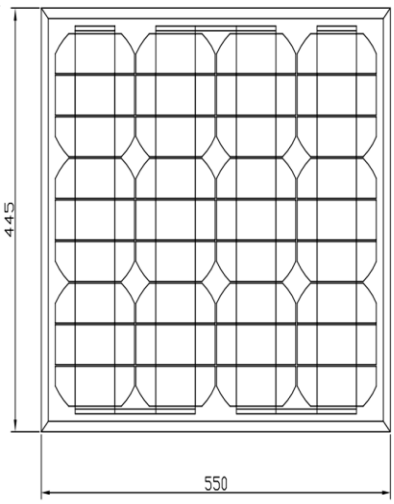


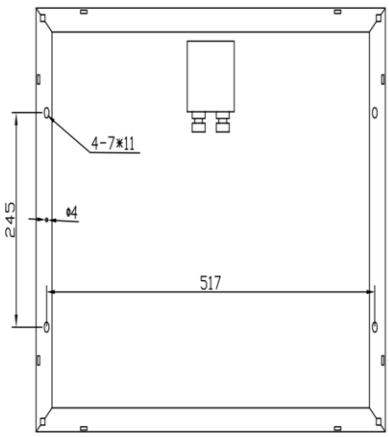
## Characteristics

| **Module** | DT025-12 | DT030-12 |
|---|---|---|
| **Maximum power at STC(Pm)** | 25Wp | 30Wp |
| **Maximum power voltage(Vmp)** | 17.3V | 18.0V |
| **Maximum power current(Imp)** | 1.45A | 1.67A |
| **Open circuit voltage(Voc)** | 21.7V | 22.4V |
| **Short circuit current(Isc)** | 1.57A | 1.77A |
| **Maximum system voltage** | 700V | |
| **Operating temperature** | -40℃~85℃ | |
| **Resistances** | 227g steel ball fall down from 1m height and 60m/s wind | |
| **Warranty** | 2 years product warranty and 25 years 80% of power | |

**STC: Irradiancy 1000W/m², Module temperature 25℃, AM=1.5**

**Photovoltaic (PV) Modules are designed for outdoor use to generate electrical energy from light. Laminated PV modules, DTX-12 series, are mainly composed of 36 pieces of 125mm*41.7mm solar monocrystalline cells in series, tempered and high transparency glass, qualified EVA encapsulation film, substrate (back surface) and anodized aluminum alloy frames. With high efficiency, DTX-12 series have good features, such as long life, high weather proof, easy installation, and etc. they can be widely used in solar home systems, YV repeater stations, street lighting, Measuring/Monitoring systems, and PV plants.**

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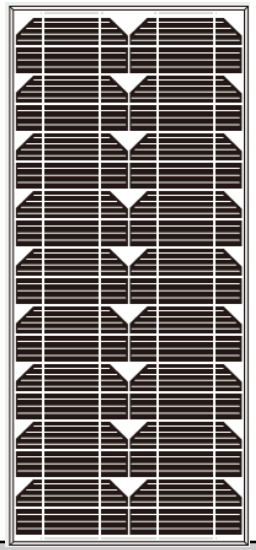
# DT020-12

DT015-12 DT020-12

# Photovoltaic Module



## Specifications

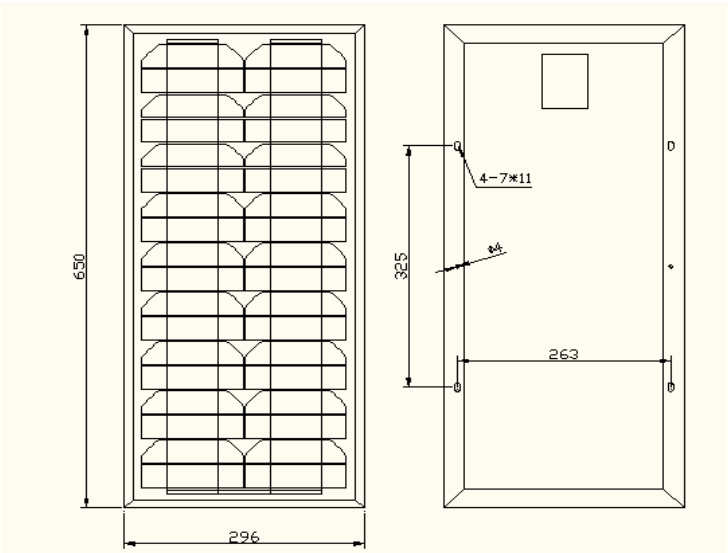
| | |
|---|---|
| **cell** | Monocrystalline silicon solar cells 125×31.25 |
| **No. of cells** | 36(2×18) |
| **Dimension of module(mm)** | 650×296×25 |
| **Weight** | 2.5kg |

## Characteristics

| **Module** | DT016-12 | DT020-12 |
|---|---|---|
| **Maximum power at STC(Pm)** | 15Wp | 20Wp |
| **Maximum power voltage(Vmp)** | 16.8V | 16.8V |
| **Maximum power current(Imp)** | 0.89A | 1.19A |
| **Open circuit voltage(Voc)** | 21.0V | 21.4V |
| **Short circuit current(Isc)** | 1.05A | 1.21A |
| **Maximum system voltage** | 700V | |
| **Operating temperature** | -40℃~85℃ | |
| **Resistances** | 227g steel ball fall down from 1m height and 60m/s wind | |
| **Warranty** | 2 years product warranty and 25 years 80% of power | |

**STC: Irradiancy 1000W/m², Module temperature 25℃, AM=1.5**

**Photovoltaic (PV) Modules are designed for outdoor use to generate electrical energy from light. Laminated PV modules, DTX-12 series, are mainly composed of 36 pieces of 125mm*31.25mm solar monocrystalline cells in series, tempered and high transparency glass, qualified EVA encapsulation film, substrate (back surface) and anodized aluminum alloy frames. With high efficiency, DTX-12 series have good features, such as long life, high weather proof, easy installation, and etc. they can be widely used in solar home systems, YV repeater stations, street lighting, Measuring/Monitoring systems, and PV plants.**

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# Photovoltaic Module

# DT010-12

## (Sized To Your Requirement)

DT010-12

## Specifications

| | |
|---|---|
| **cell** | |
| **No. of cells** | |
| **Dimension of module(mm)** | |
| **Weight** | |

## Characteristics

| | |
|---|---|
| **Module** | DT010-12 |
| **Maximum power at STC(Pm)** | 10Wp |
| **Maximum power voltage(Vmp)** | |
| **Maximum power current(Imp)** | |
| **Open circuit voltage(Voc)** | |
| **Short circuit current(Isc)** | |
| **Maximum system voltage** | 700V |
| **Operating temperature** | -40℃~85℃ |
| **Resistances** | 227g steel ball fall down from 1m height and 60m/s wind |
| **Warranty** | 2 years product warranty and 25 years 80% of power |

**STC: Irradiancy 1000W/m², Module temperature 25℃, AM=1.5**

**Photovoltaic (PV) Modules are designed for outdoor use to generate electrical energy from light. Laminated PV modules, DTX-12 series, are mainly composed of Your Needed number of pieces of Custom Sized solar monocrystalline cells in series, tempered and high transparency glass, qualified EVA encapsulation film, substrate (back surface) and anodized aluminum alloy frames. With high efficiency, DTX-12 series have good features, such as long life, high weather proof, easy installation, and etc. they can be widely used in solar home systems, YV repeater stations, street lighting, Measuring/Monitoring systems, and PV plants.**

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# Photovoltaic Module

# DT005-12

## (Sized To Your Requirement)

DT005-12 DT004-12

## Specifications

| | |
|---|---|
| **cell** | |
| **No. of cells** | |
| **Dimension of module(mm)** | |
| **Weight** | |

## Characteristics

| **Module** | DT004-12 | DT005-12 |
|---|---|---|
| **Maximum power at STC(Pm)** | 4Wp | 5Wp |
| **Maximum power voltage(Vmp)** | | |
| **Maximum power current(Imp)** | | |
| **Open circuit voltage(Voc)** | | |
| **Short circuit current(Isc)** | | |
| **Maximum system voltage** | 700V | |
| **Operating temperature** | -40℃~85℃ | |
| **Resistances** | 227g steel ball fall down from 1m height and 60m/s wind | |
| **Warranty** | 2 years product warranty and 25 years 80% of power | |

**STC: Irradiancy 1000W/m², Module temperature 25℃, AM=1.5**

**Photovoltaic (PV) Modules are designed for outdoor use to generate electrical energy from light. Laminated PV modules, DTX-12 series, are mainly composed of Your Needed number of pieces of Custom Sized solar monocrystalline cells in series, tempered and high transparency glass, qualified EVA encapsulation film, substrate (back surface) and anodized aluminum alloy frames. With high efficiency, DTX-12 series have good features, such as long life, high weather proof, easy installation, and etc. they can be widely used in solar home systems, YV repeater stations, street lighting, Measuring/Monitoring systems, and PV plants.**

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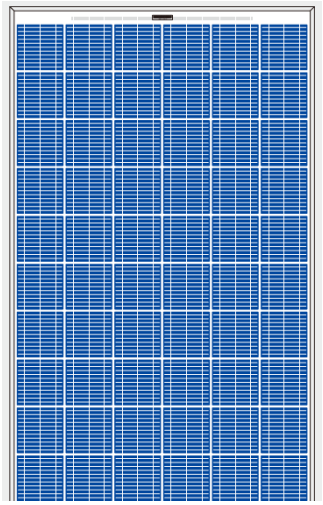
# DT210P-18

# Photovoltaic Module

DT190P-18 DT200P-18 DT210P-18
DT220P-18 DT230P-18



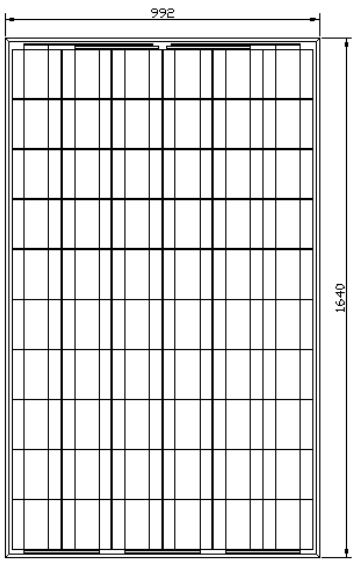
## Specifications

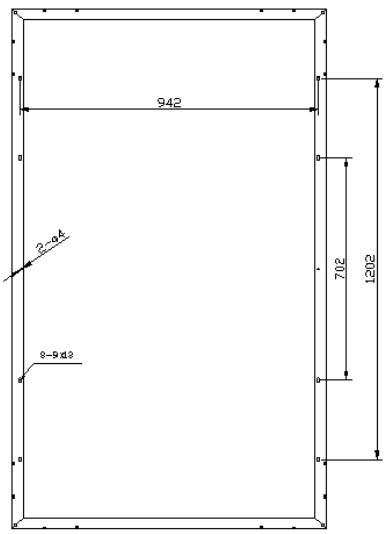
| | |
|---|---|
| **cell** | Polycrystalline silicon solar cells 156×156 |
| **No. of cells** | 60(6×10) |
| **Dimension of module(mm)** | 1640×992×50 |
| **Weight** | 20kg |

## Characteristics

| **Module** | DT190P-18 | DT200P-18 | DT210P-18 | DT220P-18 | DT230P-18 |
|---|---|---|---|---|---|
| **Maximum power at STC(Pm)** | 190Wp | 200Wp | 210Wp | 220Wp | 230Wp |
| **Maximum power voltage(Vmp)** | 28.3V | 28.6V | 29.0V | 29.5V | 30V |
| **Maximum power current(Imp)** | 6.71A | 6.99A | 7.25A | 7.46A | 7.67A |
| **Open circuit voltage(Voc)** | 36.3V | 36.4V | 36.5V | 36.7V | 36.8V |
| **Short circuit current(Isc)** | 7.58A | 7.80A | 7.95A | 8.11A | 8.33A |
| **Maximum system voltage** | 1000V | | | | |
| **Operating temperature** | -40℃~85℃ | | | | |
| **Resistances** | 227g steel ball fall down from 1m height and 60m/s wind | | | | |
| **Warranty** | 2 years product warranty and 25 years 80% of power | | | | |

**STC: Irradiancy 1000W/m², Module temperature 25℃, AM=**




**Photovoltaic (PV) Modules are designed for outdoor use to generate electrical energy from light. Laminated PV modules, DTXP-18 series, are mainly composed of 60 pieces of 156mm*156mm solar polycrystalline cells in series, tempered and high transparency glass, qualified EVA encapsulation film, substrate (back surface) and anodized aluminum alloy frames. With high efficiency, DTXP-18 series have good features, such as long life, high weather proof, easy installation, and etc. they can be widely used in solar home systems, YV repeater stations, street lighting, Measuring/Monitoring systems, and PV plants.**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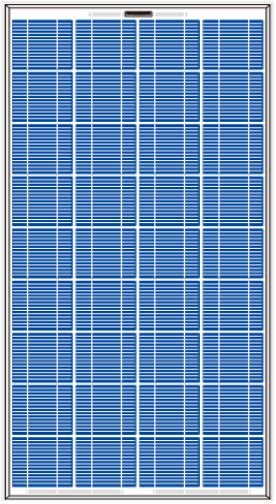
# DT120P-12

# Photovoltaic Module

DT110P-12 DT120P-12 DT130P-12
DT135P-12 DT140P-12



## Specifications

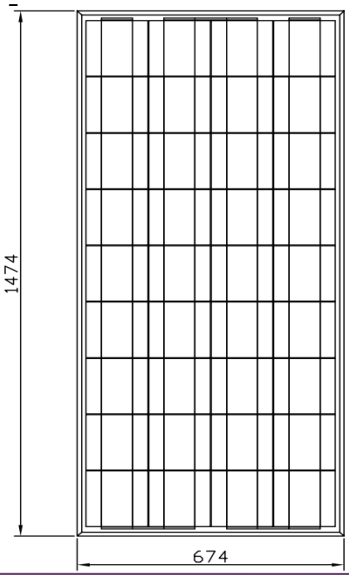
| | |
|---|---|
| **cell** | Polycrystalline silicon solar cells 156×156 |
| **No. of cells** | 36(4×9) |
| **Dimension of module(mm)** | 1474×674×30 |
| **Weight** | 12kg |

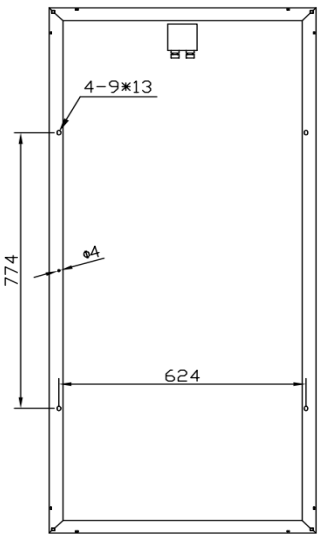
## Characteristics

| **Module** | DT110P-12 | DT120P-12 | DT130P-12 | DT135P-12 | DT140P-12 |
|---|---|---|---|---|---|
| **Maximum power at STC(Pm)** | 110W | 120W | 130W | 130W | 140W |
| **Maximum power voltage(Vmp)** | 17V | 17.2V | 17.2V | 17.4V | 17.6V |
| **Maximum power current(Imp)** | 6.47A | 6.98A | 7.56A | 7.76A | 7.95A |
| **Open circuit voltage(Voc)** | 21V | 21.6V | 21.8V | 21.9V | 22.1V |
| **Short circuit current(Isc)** | 7.48A | 7.7A | 7.85A | 8A | 8.1A |
| **Maximum system voltage** | 1000V | | | | |
| **Operating temperature** | -40℃~85℃ | | | | |
| **Resistances** | 227g steel ball fall down from 1m height and 60m/s wind | | | | |
| **Warranty** | 2 years product warranty and 25 years 80% of power | | | | |

**STC: Irradiancy 1000W/m², Module temperature 25℃, AM=**

**Photovoltaic (PV) Modules are designed for outdoor use to generate electrical energy from light. Laminated PV modules, DTXP-12 series, are mainly composed of 36 pieces of 156mm*156mm solar polycrystalline cells in series, tempered and high transparency glass, qualified EVA encapsulation film, substrate (back surface) and anodized aluminum alloy frames. With high efficiency, DTXP-12 series have good features, such as long life, high weather proof, easy installation, and etc. they can be widely used in solar home systems, YV repeater stations, street lighting, Measuring/Monitoring systems, and PV plants.**

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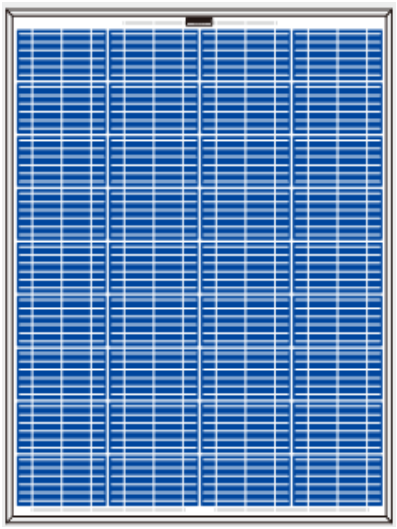
# DT060P-12

# Photovoltaic Module

DT055P-12 DT060P-12 DT065P-12



## Specifications

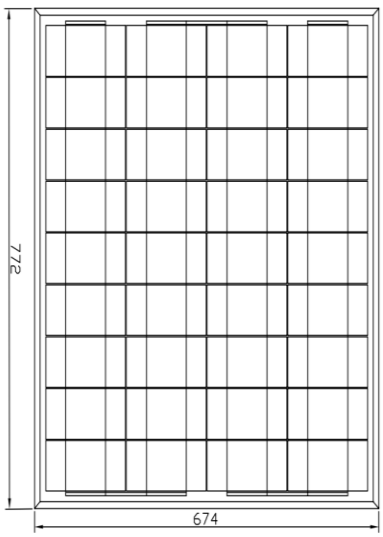
| | |
|---|---|
| **cell** | Polycrystalline silicon solar cells 156×78 |
| **No. of cells** | 36(4×9) |
| **Dimension of module(mm)** | 771×674×30 |
| **Weight** | 6.5kg |

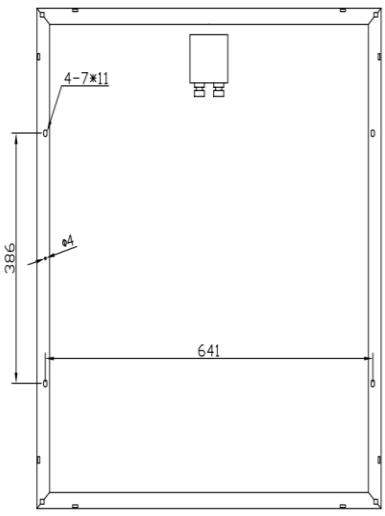
## Characteristics

| **Module** | DT055P-12 | DT060P-12 | DT065P-12 |
|---|---|---|---|
| **Maximum power at STC(Pm)** | 55Wp | 60Wp | 65Wp |
| **Maximum power voltage(Vmp)** | 17V | 17.2V | 17.4V |
| **Maximum power current(Imp)** | 3.24A | 3.89A | 3.74A |
| **Open circuit voltage(Voc)** | 21.2V | 21.4V | 21.6V |
| **Short circuit current(Isc)** | 3.6A | 3.89A | 3.74A |
| **Maximum system voltage** | 1000V | | |
| **Operating temperature** | -40℃~85℃ | | |
| **Resistances** | 227g steel ball fall down from 1m height and 60m/s wind | | |
| **Warranty** | 2 years product warranty and 25 years 80% of power | | |

**STC: Irradiancy 1000W/m², Module temperature 25℃, AM=**

**Photovoltaic (PV) Modules are designed for outdoor use to generate electrical energy from light. Laminated PV modules, DTXP-12 series, are mainly composed of 36 pieces of 156mm*78mm solar polycrystalline cells in series, tempered and high transparency glass, qualified EVA encapsulation film, substrate (back surface) and anodized aluminum alloy frames. With high efficiency, DTXP-12 series have good features, such as long life, high weather proof, easy installation, and etc. they can be widely used in solar home systems, YV repeater stations, street lighting, Measuring/Monitoring systems, and PV plants.**

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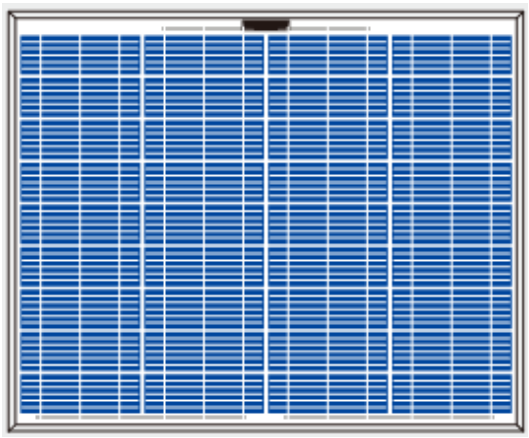
# DT040P-12

# Photovoltaic Module

DT035P-12 DT040P-12 DT045P-12

## Specifications

| | |
|---|---|
| **cell** | Polycrystalline silicon solar cells 156×52 |
| **No. of cells** | 36(4×9) |
| **Dimension of module(mm)** | 538×674×30 |
| **Weight** | 4.5kg |

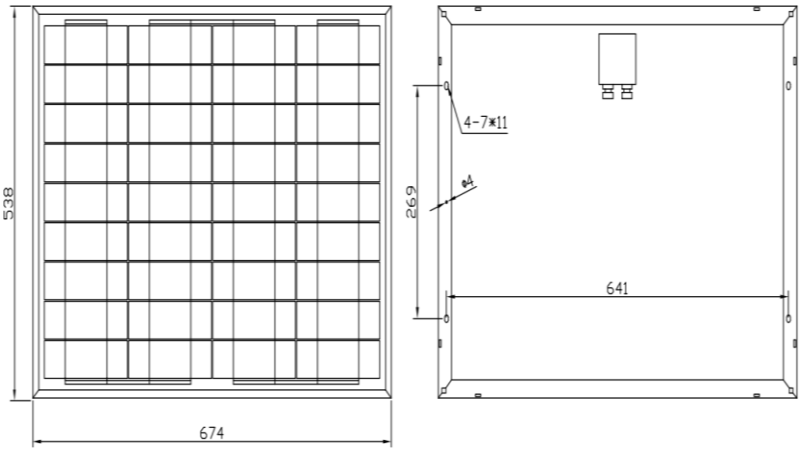


## Characteristics

| **Module** | DT035P-12 | DT040P-12 | DT045P-12 |
|---|---|---|---|
| **Maximum power at STC(Pm)** | 35W | 40W | 45W |
| **Maximum power voltage(Vmp)** | 17V | 17.2V | 17.6V |
| **Maximum power current(Imp)** | 2.06A | 2.32A | 2.56A |
| **Open circuit voltage(Voc)** | 21V | 21.6V | 21.9V |
| **Short circuit current(Isc)** | 2.38A | 2.62A | 2.7A |
| **Maximum system voltage** | 1000V | | |
| **Operating temperature** | -40℃~85℃ | | |
| **Resistances** | 227g steel ball fall down from 1m height and 60m/s wind | | |
| **Warranty** | 2 years product warranty and 25 years 80% of power | | |

**STC: Irradiancy 1000W/m², Module temperature 25℃, AM=1.5**

**Photovoltaic (PV) Modules are designed for outdoor use to generate electrical energy from light. Laminated PV modules, DTXP-12 series, are mainly composed of 36 pieces of 156mm*52mm solar polycrystalline cells in series, tempered and high transparency glass, qualified EVA encapsulation film, substrate (back surface) and anodized aluminum alloy frames. With high efficiency, DTXP-12 series have good features, such as long life, high weather proof, easy installation, and etc. they can be widely used in solar home systems, YV repeater stations, street lighting, Measuring/Monitoring systems, and PV plants.**

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Lighthouse WorldWide, LLC
The Right Light

# DT030P-12

# Photovoltaic Module

## Specifications

| | |
|---|---|
| **cell** | Polycrystalline silicon solar cells 156×39mm |
| **No. of cells** | 36(4×9) |
| **Dimension of module(mm)** | 426×680×30 |
| **Weight** | 4kg |

## Characteristics

| **Module** | DT030P-12 |
|---|---|
| **Maximum power at STC(Pm)** | 30W |
| **Maximum power voltage(Vmp)** | 17.2V |
| **Maximum power current(Imp)** | 1.74A |
| **Open circuit voltage(Voc)** | 21.6V |
| **Short circuit current(Isc)** | 1.93A |
| **Maximum system voltage** | 1000V |
| **Operating temperature** | -40℃~85℃ |
| **Resistances** | 227g steel ball fall down from 1m height and 60m/s wind |
| **Warranty** | 2 years product warranty and 25 years 80% of power |

**STC: Irradiancy 1000W/m², Module temperature 25℃, AM=1.5**

**Photovoltaic (PV) Modules are designed for outdoor use to generate electrical energy from light. Laminated PV modules, DTXP-12 series, are mainly composed of 36 pieces of 156mm*39mm solar polycrystalline cells in series, tempered and high transparency glass, qualified EVA encapsulation film, substrate (back surface) and anodized aluminum alloy frames. With high efficiency, DTXP-12 series have good features, such as long life, high weather proof, easy installation, and etc. they can be widely used in solar home systems, YV repeater stations, street lighting, Measuring/Monitoring systems, and PV plants.**

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# Photovoltaic Module

# DT010P-12
(Sized To Your Requirement)

## Specifications

| cell | |
|---|---|
| No. of cells | |
| Dimension of module(mm) | |
| Weight | |

## Characteristics

| Module | DT110P-12 |
|---|---|
| Maximum power at STC(Pm) | 10w |
| Maximum power voltage(Vmp) | |
| Maximum power current(Imp) | |
| Open circuit voltage(Voc) | |
| Short circuit current(Isc) | |
| Maximum system voltage | 1000V |
| Operating temperature | -40℃~85℃ |
| Resistances | 227g steel ball fall down from 1m height and 60m/s wind |
| Warranty | 2 years product warranty and 25 years 80% of power |

**STC: Irradiancy 1000W/m², Module temperature 25℃, AM=1.5**

**Photovoltaic (PV) Modules are designed for outdoor use to generate electrical energy from light. Laminated PV modules, DTXP-12 series, are mainly composed of Your Needed number of pieces of Custom Sized solar polycrystalline cells in series, tempered and high transparency glass, qualified EVA encapsulation film, substrate (back surface) and anodized aluminum alloy frames. With high efficiency, DTXP-12 series have good features, such as long life, high weather proof, easy installation, and etc. they can be widely used in solar home systems, YV repeater stations, street lighting, Measuring/Monitoring systems, and PV plants.**

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