

Building, Room 1012 Led Solar Silicon Valley Queshan Dalang Longhua ShenZhen

Web:www.zhihesolar.com

| <b>Model(ZH195CE-30P)Specifications</b> |                                      |
|---|--------------------------------------|
| <b>ITEM NO.:</b>                        | <b>ZH195CE-30P</b>                   |
| Maximum Power(W)                        | 195                                  |
| Optimum Power Voltage(Vmp)              | 29.16                                |
| Optimum Operatige Current(Imp)          | 6.68                                 |
| Open Circuit Voltage(Voc)               | 36.12                                |
| Short Circuit Current(Isc)              | 7.15                                 |
| Solar Cell:                             | 156*156 Poly                         |
| Number of Cell(pcs)                     | 6*10                                 |
| Brand Name of Solar Cells               | Jetion Cell                          |
| Size of Module(mm)                      | 1640*990*40                          |
| Front Glass Thikness(mm)                | 3.2                                  |
| Temperature Coefficients of Isc(%)°C    | +0.04                                |
| Temperature Coefficients of Voc(%)°C    | -0.38                                |
| Temperature Coefficients of Pm(%)°C     | -0.47                                |
| Temperature Coefficients of Im(%)°C     | +0.04                                |
| Temperature Coefficients of Vm(%)°C     | -0.38                                |
| Temperature Range                       | -40°C to +85°C                       |
| Tolerance Wattage(e.g.+/-5%)            | ±5%                                  |
| Surface Maximum Load Capacity           | 2400Pa                               |
| Allowable Hail Load                     | 23m/s ,7.53g                         |
| Weight Per Piece(KG)                    | 18.6                                 |
| Junction Box Type                       | Pass the TUV Certificate             |
| Bypass Diode Rating(A)                  | 12                                   |
| Caple & Connector Type                  | Pass the TUV Certificate             |
| Cell Efficiency (%)                     | 13.35%                               |
| Module Efficiency (%)                   | 12.13%                               |
| Frame(Material Corners,etc.)            | 40#                                  |
| Backing (Brand Type)                    | TPT                                  |
| Warranty                                | 90% of 10 years,80% of 25 years.     |
| Standard Test Conditions                | AM1.5 1000W/m <sup>2</sup> 25 +/-2°C |
| FF (%)                                  | 70-76%                               |
| Packing                                 | Wooden box                           |
| 1*20'                                   | 14Pallets / 316pcs                   |
| 1*40'HQ                                 | 28 Pallets / 756pcs                  |

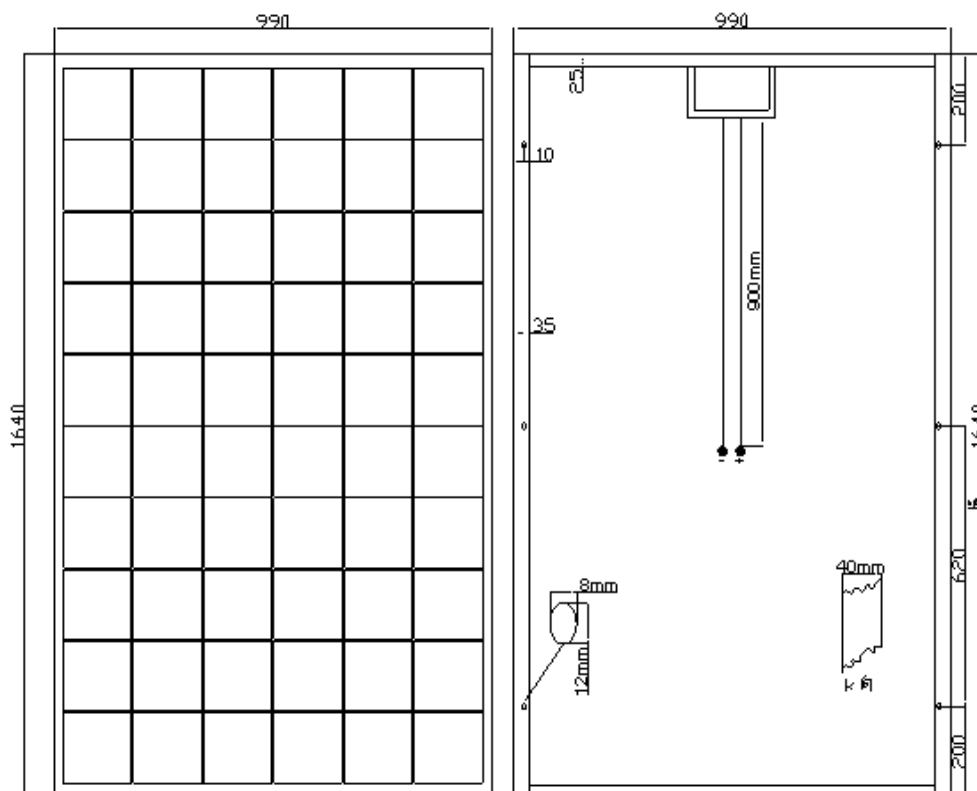
## Model(ZH195CE-30P)

### Specification

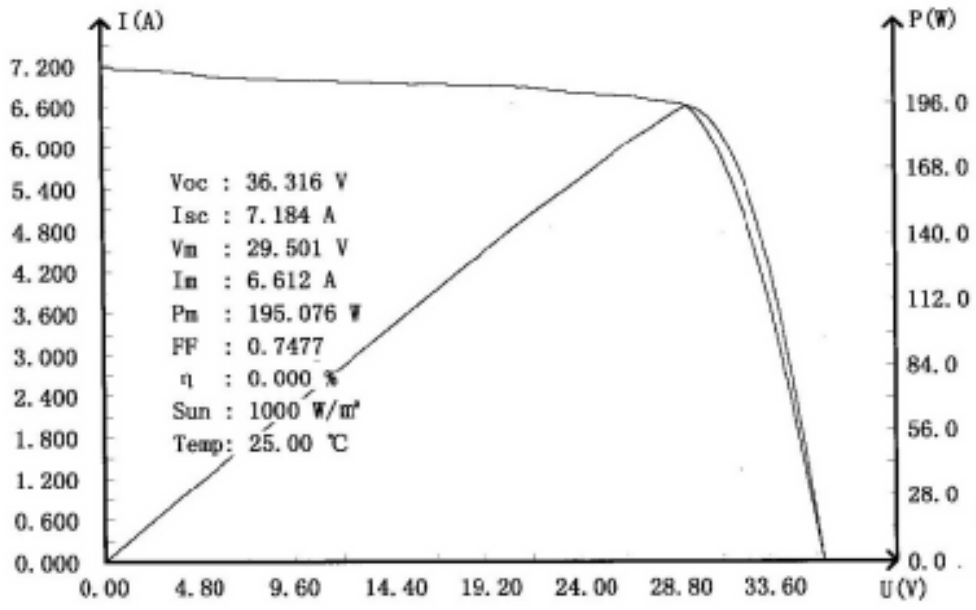
### ZhiHe Solar Module

Using high quality materials to provide high quality solar modules

- 1.Solar cells:Jetion cells
- 2.Glass:Flat 's from Shanghai
- 3.EVA:First Hot-Melt Adhesive from Hangzhou China
- 4.TPT:JOLYWOOD from Suzhou,China
- 5.Junction box and connectors:GZX from Cixi,China or Rehe from Cixi,China
- 6.Silica gel:Dow Corning



### IV Curve



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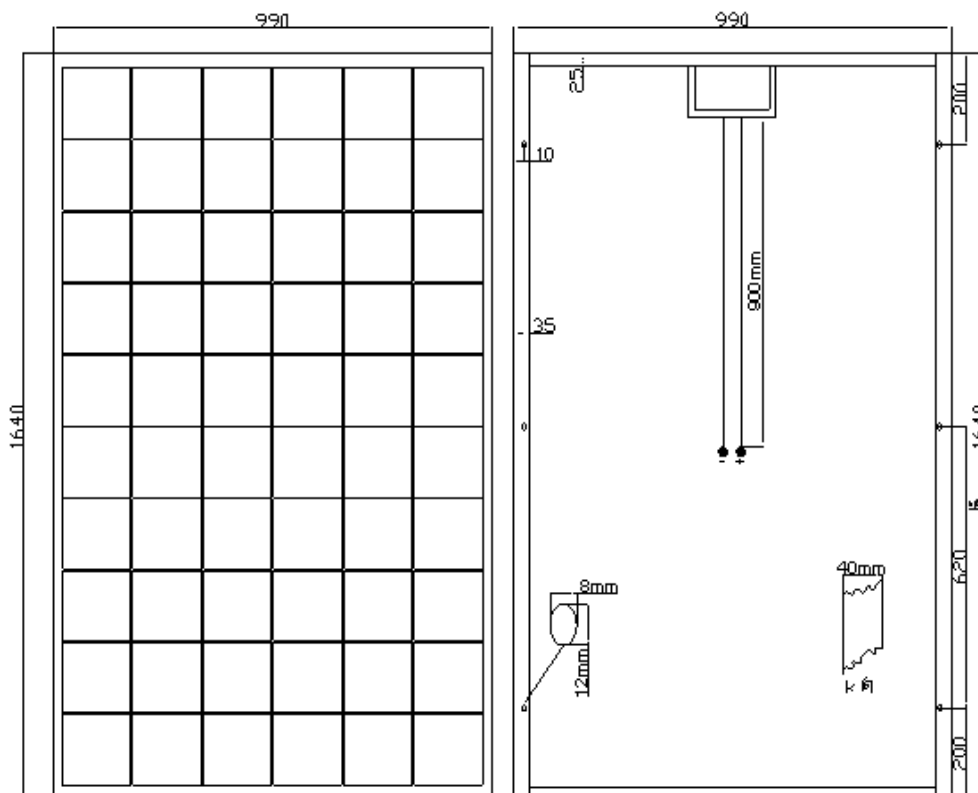
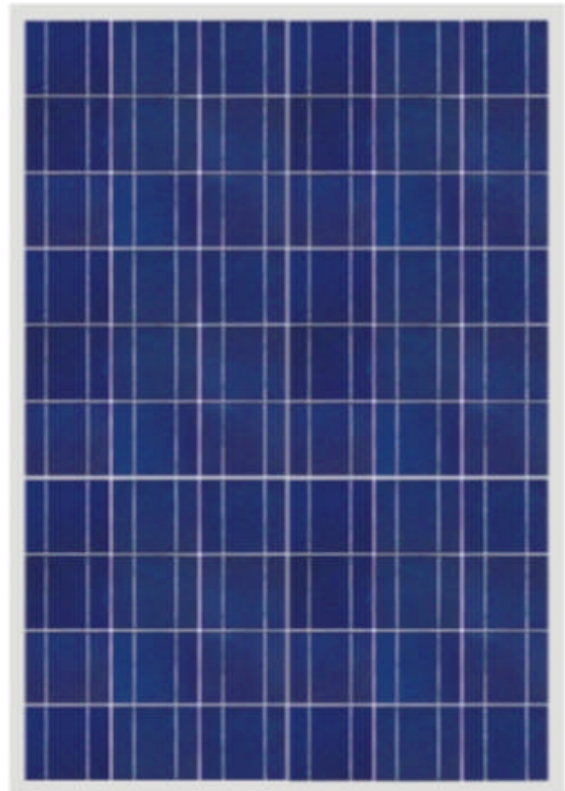
| <b>Model(ZH200CE-30P)Specifications</b> |                                      |
|---|--------------------------------------|
| <b>ITEM NO.:</b>                        | <b>ZH200CE-30P</b>                   |
| Maximum Power(W)                        | 200                                  |
| Optimum Power Voltage(Vmp)              | 29.16                                |
| Optimum Operatige Current(Imp)          | 6.85                                 |
| Open Circuit Voltage(Voc)               | 36.12                                |
| Short Circuit Current(Isc)              | 7.33                                 |
| Solar Cell:                             | 156*156 Poly                         |
| Number of Cell(pcs)                     | 6*10                                 |
| Brand Name of Solar Cells               | Jetion Cell                          |
| Size of Module(mm)                      | 1640*990*40                          |
| Front Glass Thikness(mm)                | 3.2                                  |
| Temperature Coefficients of Isc(%)°C    | +0.04                                |
| Temperature Coefficients of Voc(%)°C    | -0.38                                |
| Temperature Coefficients of Pm(%)°C     | -0.47                                |
| Temperature Coefficients of Im(%)°C     | +0.04                                |
| Temperature Coefficients of Vm(%)°C     | -0.38                                |
| Temperature Range                       | -40°C to +85°C                       |
| Tolerance Wattage(e.g.+/-5%)            | ±5%                                  |
| Surface Maximum Load Capacity           | 2400Pa                               |
| Allowable Hail Load                     | 23m/s ,7.53g                         |
| Weight Per Piece(KG)                    | 18.6                                 |
| Junction Box Type                       | Pass the TUV Certificate             |
| Bypass Diode Rating(A)                  | 12                                   |
| Caple & Connector Type                  | Pass the TUV Certificate             |
| Cell Efficiency (%)                     | 14.69%                               |
| Module Efficiency (%)                   | 12.44%                               |
| Frame(Material Corners,etc.)            | 40#                                  |
| Backing (Brand Type)                    | TPT                                  |
| Warranty                                | 90% of 10 years,80% of 25 years.     |
| Standard Test Conditions                | AM1.5 1000W/m <sup>2</sup> 25 +/-2°C |
| FF (%)                                  | 70-76%                               |
| Packing                                 | Wooden box                           |
| 1*20'                                   | 14Pallets / 316pcs                   |
| 1*40'HQ                                 | 28 Pallets / 756pcs                  |

**Model(ZH200CE-30P)  
Specification**

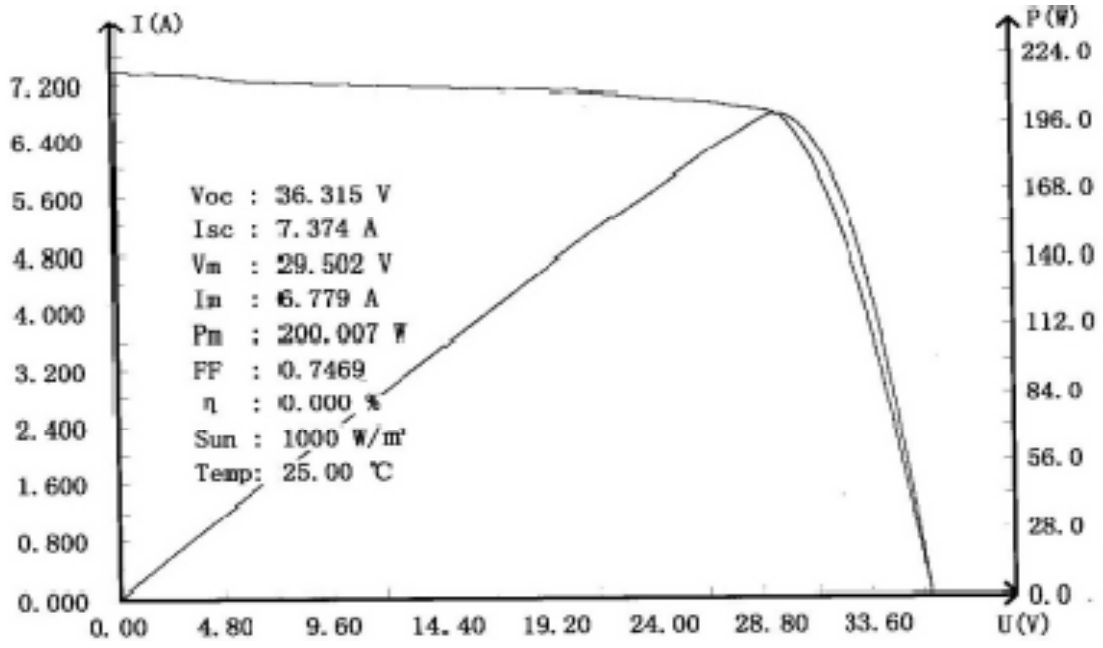
**ZhiHe Solar Module**

**Using high quality materials to  
provide high quality solar modules**

- 1.Solar cells:Jetion cells
- 2.Glass:Flat 's from Shanghai
- 3.EVA:First Hot-Melt Adhesive from Hangzhou China
- 4.TPT:JOLYWOOD from Suzhou,China
- 5.Junction box and connectors:GZX from Cixi,China or Rehe from Cixi,China
- 6.Silica gel:Dow Corning



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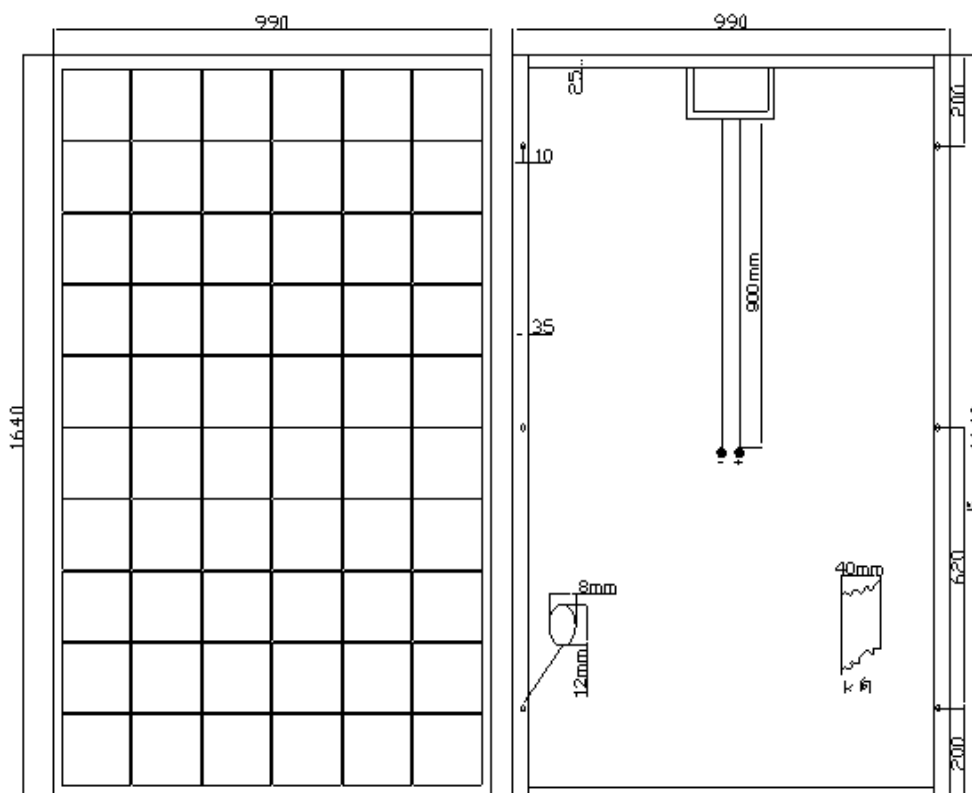
| <b>Model(ZH205CE-30P)Specifications</b> |                                      |
|---|--------------------------------------|
| <b>ITEM NO.:</b>                        | <b>ZH205CE-30P</b>                   |
| Maximum Power(W)                        | 205                                  |
| Optimum Power Voltage(Vmp)              | 29.52                                |
| Optimum Operatige Current(Imp)          | 6.94                                 |
| Open Circuit Voltage(Voc)               | 36.18                                |
| Short Circuit Current(Isc)              | 7.43                                 |
| Solar Cell:                             | 156*156 Poly                         |
| Number of Cell(pcs)                     | 6*10                                 |
| Brand Name of Solar Cells               | Jetion Cell                          |
| Size of Module(mm)                      | 1640*990*40                          |
| Front Glass Thikness(mm)                | 3.2                                  |
| Temperature Coefficients of Isc(%)°C    | +0.04                                |
| Temperature Coefficients of Voc(%)°C    | -0.38                                |
| Temperature Coefficients of Pm(%)°C     | -0.47                                |
| Temperature Coefficients of Im(%)°C     | +0.04                                |
| Temperature Coefficients of Vm(%)°C     | -0.38                                |
| Temperature Range                       | -40°C to +85°C                       |
| Tolerance Wattage(e.g.+/-5%)            | ±5%                                  |
| Surface Maximum Load Capacity           | 2400Pa                               |
| Allowable Hail Load                     | 23m/s ,7.53g                         |
| Weight Per Piece(KG)                    | 18.6                                 |
| Junction Box Type                       | Pass the TUV Certificate             |
| Bypass Diode Rating(A)                  | 12                                   |
| Caple & Connector Type                  | Pass the TUV Certificate             |
| Cell Efficiency (%)                     | 14.03%                               |
| Module Efficiency (%)                   | 12.75%                               |
| Frame(Material Corners,etc.)            | 40#                                  |
| Backing (Brand Type)                    | TPT                                  |
| Warranty                                | 90% of 10 years,80% of 25 years.     |
| Standard Test Conditions                | AM1.5 1000W/m <sup>2</sup> 25 +/-2°C |
| FF (%)                                  | 70-76%                               |
| Packing                                 | Wooden box                           |
| 1*20'                                   | 14Pallets / 316pcs                   |
| 1*40'HQ                                 | 28 Pallets / 756pcs                  |

**Model(ZH205CE-30P)  
Specification**

**ZhiHe Solar Module**

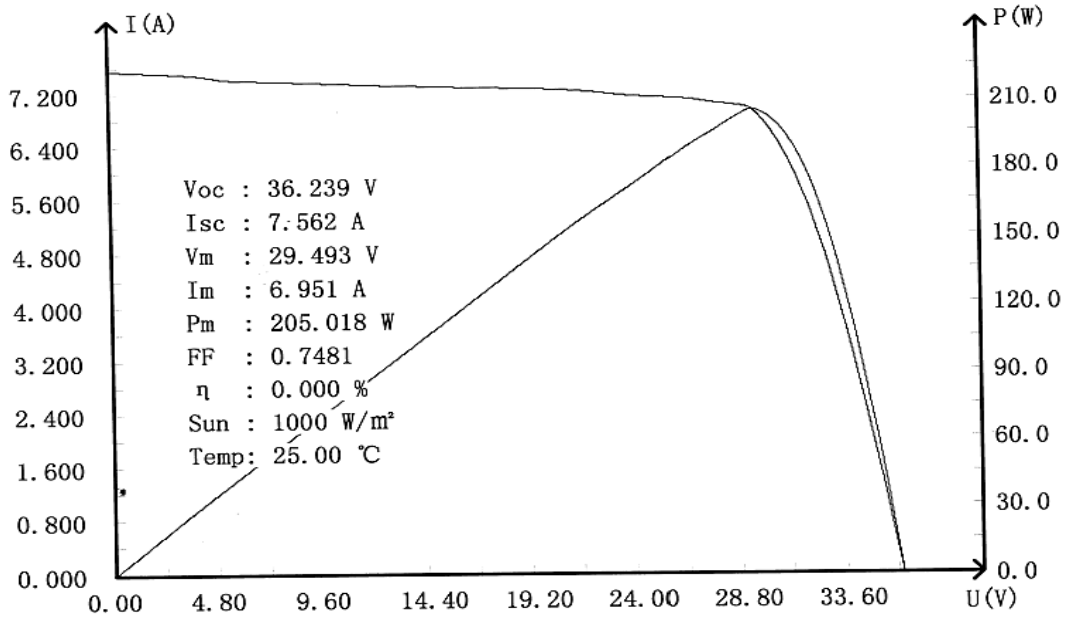
**Using high quality materials to  
provide high quality solar modules**

- 1.Solar cells:Jetion cells
- 2.Glass:Flat 's from Shanghai
- 3.EVA:First Hot-Melt Adhesive from Hangzhou China
- 4.TPT:JOLYWOOD from Suzhou,China
- 5.Junction box and connectors:GZX from Cixi,China or Rehe from Cixi,China
- 6.Silica gel:Dow Corning





# IV Curve



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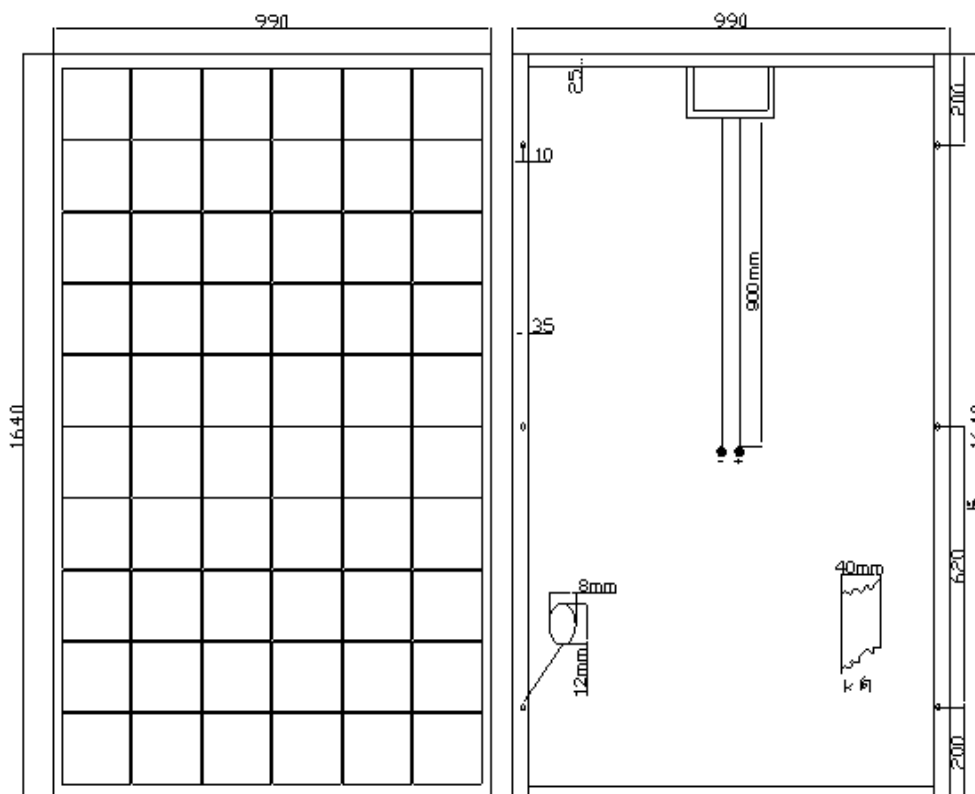
| <b>Model(ZH210CE-30P)Specifications</b> |                                      |
|---|--------------------------------------|
| <b>ITEM NO.:</b>                        | <b>ZH210CE-30P</b>                   |
| Maximum Power(W)                        | 210                                  |
| Optimum Power Voltage(Vmp)              | 29.52                                |
| Optimum Operatige Current(Imp)          | 7.11                                 |
| Open Circuit Voltage(Voc)               | 36.18                                |
| Short Circuit Current(Isc)              | 7.61                                 |
| Solar Cell:                             | 156*156 Poly                         |
| Number of Cell(pcs)                     | 6*10                                 |
| Brand Name of Solar Cells               | Jetion Cell                          |
| Size of Module(mm)                      | 1640*990*40                          |
| Front Glass Thikness(mm)                | 3.2                                  |
| Temperature Coefficients of Isc(%)°C    | +0.04                                |
| Temperature Coefficients of Voc(%)°C    | -0.38                                |
| Temperature Coefficients of Pm(%)°C     | -0.47                                |
| Temperature Coefficients of Im(%)°C     | +0.04                                |
| Temperature Coefficients of Vm(%)°C     | -0.38                                |
| Temperature Range                       | -40°C to +85°C                       |
| Tolerance Wattage(e.g.+/-5%)            | ±5%                                  |
| Surface Maximum Load Capacity           | 2400Pa                               |
| Allowable Hail Load                     | 23m/s ,7.53g                         |
| Weight Per Piece(KG)                    | 18.6                                 |
| Junction Box Type                       | Pass the TUV Certificate             |
| Bypass Diode Rating(A)                  | 12                                   |
| Caple & Connector Type                  | Pass the TUV Certificate             |
| Cell Efficiency (%)                     | 14.38%                               |
| Module Efficiency (%)                   | 13.06%                               |
| Frame(Material Corners,etc.)            | 40#                                  |
| Backing (Brand Type)                    | TPT                                  |
| Warranty                                | 90% of 10 years,80% of 25 years.     |
| Standard Test Conditions                | AM1.5 1000W/m <sup>2</sup> 25 +/-2°C |
| FF (%)                                  | 70-76%                               |
| Packing                                 | Wooden box                           |
| 1*20'                                   | 14Pallets / 316pcs                   |
| 1*40'HQ                                 | 28 Pallets / 756pcs                  |

## Model(ZH210CE-30P) Specification

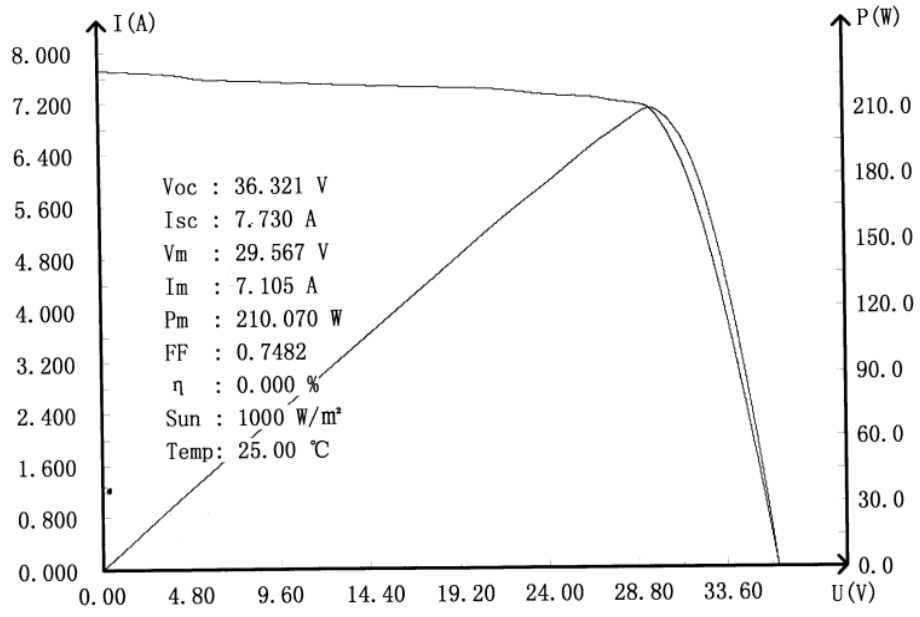
### ZhiHe Solar Module

Using high quality materials to  
provide high quality solar modules

- 1.Solar cells:Jetion cells
- 2.Glass:Fiat 's from Shanghai
- 3.EVA:First Hot-Melt Adhesive from Hangzhou China
- 4.TPT:JOLYWOOD from Suzhou,China
- 5.Junction box and connectors:GZX from Cixi,China or Rehe from Cixi,China
- 6.Silica gel:Dow Corning



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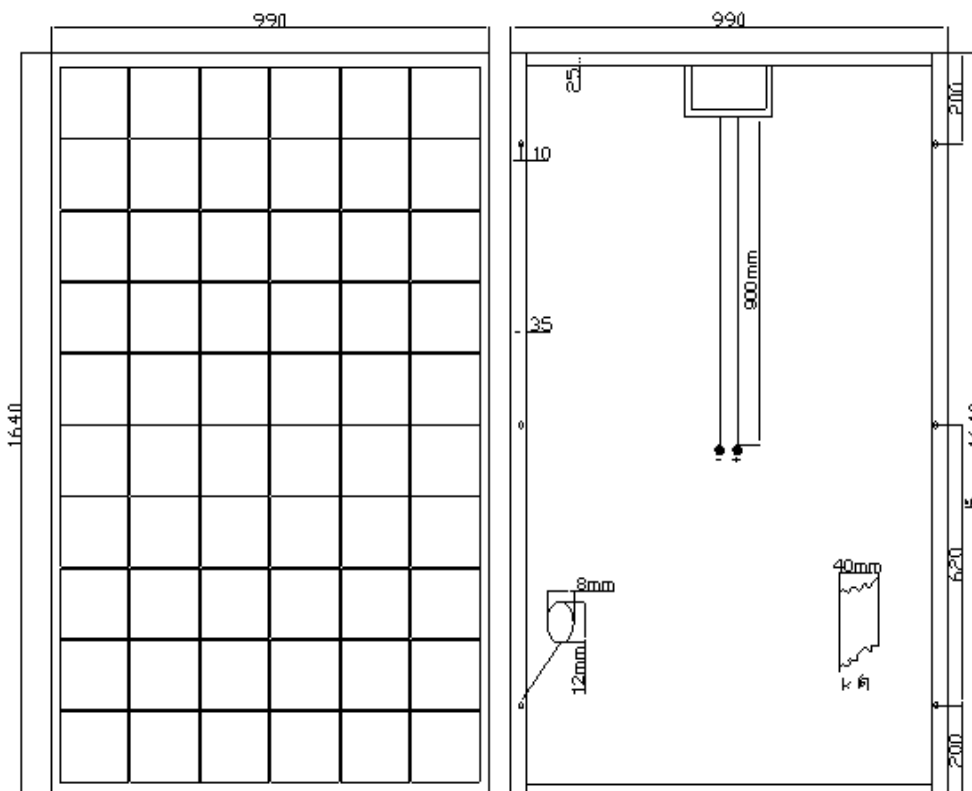
| <b>Model(ZH215CE-30P)Specifications</b> |                                      |
|---|--------------------------------------|
| <b>ITEM NO.:</b>                        | <b>ZH215CE-30P</b>                   |
| Maximum Power(W)                        | 215                                  |
| Optimum Power Voltage(Vmp)              | 30.00                                |
| Optimum Operatige Current(Imp)          | 7.16                                 |
| Open Circuit Voltage(Voc)               | 36.24                                |
| Short Circuit Current(Isc)              | 7.66                                 |
| Solar Cell:                             | 156*156 Poly                         |
| Number of Cell(pcs)                     | 6*10                                 |
| Brand Name of Solar Cells               | Jetion Cell                          |
| Size of Module(mm)                      | 1640*990*40                          |
| Front Glass Thikness(mm)                | 3.2                                  |
| Temperature Coefficients of Isc(%)°C    | +0.04                                |
| Temperature Coefficients of Voc(%)°C    | -0.38                                |
| Temperature Coefficients of Pm(%)°C     | -0.47                                |
| Temperature Coefficients of Im(%)°C     | +0.04                                |
| Temperature Coefficients of Vm(%)°C     | -0.38                                |
| Temperature Range                       | -40°C to +85°C                       |
| Tolerance Wattage(e.g.+/-5%)            | ±5%                                  |
| Surface Maximum Load Capacity           | 2400Pa                               |
| Allowable Hail Load                     | 23m/s ,7.53g                         |
| Weight Per Piece(KG)                    | 18.6                                 |
| Junction Box Type                       | Pass the TUV Certificate             |
| Bypass Diode Rating(A)                  | 12                                   |
| Caple & Connector Type                  | Pass the TUV Certificate             |
| Cell Efficiency (%)                     | 14.72%                               |
| Module Efficiency (%)                   | 13.37%                               |
| Frame(Material Corners,etc.)            | 40#                                  |
| Backing (Brand Type)                    | TPT                                  |
| Warranty                                | 90% of 10 years,80% of 25 years.     |
| Standard Test Conditions                | AM1.5 1000W/m <sup>2</sup> 25 +/-2°C |
| FF (%)                                  | 70-76%                               |
| Packing                                 | Wooden box                           |
| 1*20'                                   | 14Pallets / 316pcs                   |
| 1*40'HQ                                 | 28 Pallets / 756pcs                  |

**Model(ZH215CE-30P)  
Specification**

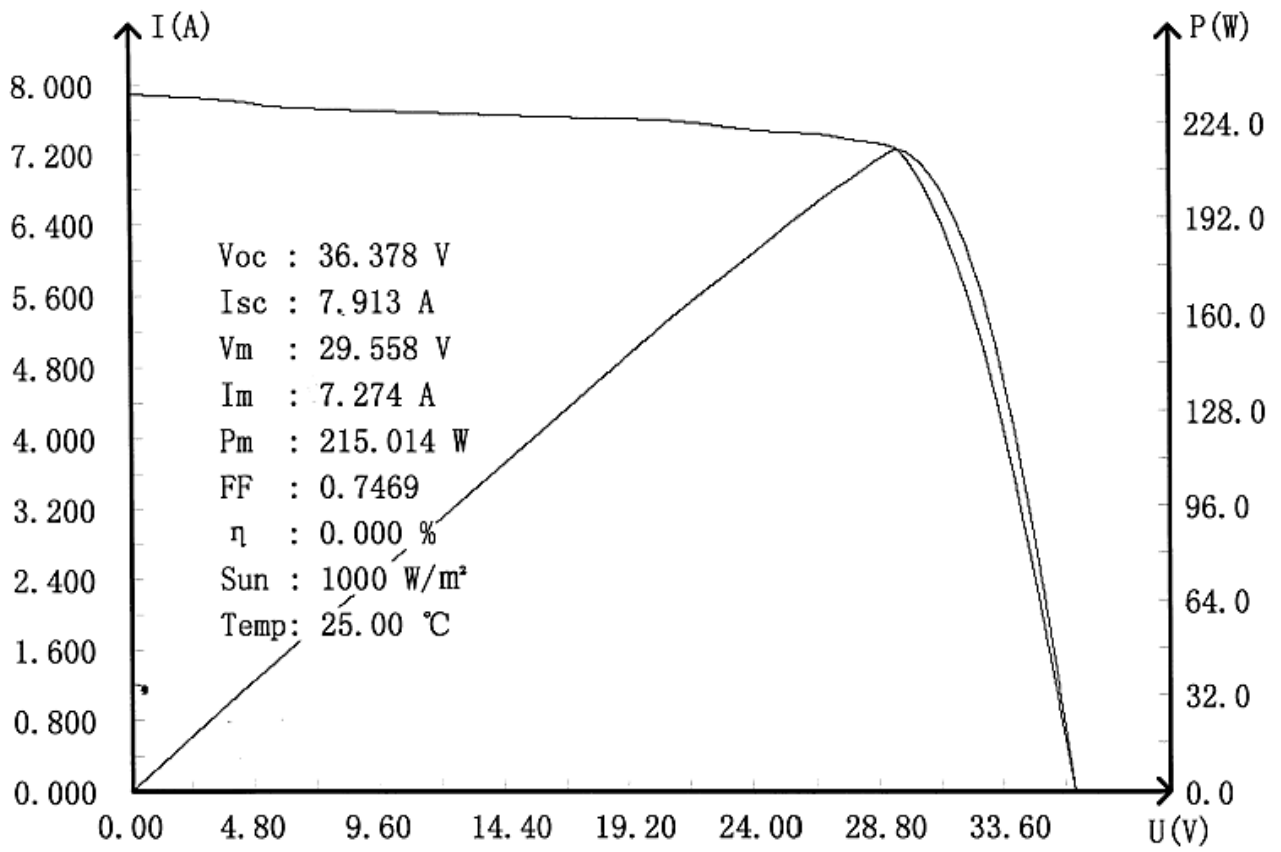
**ZhiHe Solar Module**

**Using high quality materials to  
provide high quality solar modules**

- 1.Solar cells:Jetion cells
- 2.Glass:Flat 's from Shanghai
- 3.EVA:First Hot-Melt Adhesive from Hangzhou China
- 4.TPT:JOLYWOOD from Suzhou,China
- 5.Junction box and connectors:GZX from Cixi,China or Rehe from Cixi,China
- 6.Silica gel:Dow Corning



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| <b>Model(ZH220CE-30P)Specifications</b> |                                      |
|---|--------------------------------------|
| <b>ITEM NO.:</b>                        | <b>ZH220CE-30P</b>                   |
| Maximum Power(W)                        | 220                                  |
| Optimum Power Voltage(Vmp)              | 30.12                                |
| Optimum Operatige Current(Imp)          | 7.30                                 |
| Open Circuit Voltage(Voc)               | 36.30                                |
| Short Circuit Current(Isc)              | 7.81                                 |
| Solar Cell:                             | 156*156 Poly                         |
| Number of Cell(pcs)                     | 6*10                                 |
| Brand Name of Solar Cells               | Jetion Cell                          |
| Size of Module(mm)                      | 1640*990*40                          |
| Front Glass Thikness(mm)                | 3.2                                  |
| Temperature Coefficients of Isc(%)°C    | +0.04                                |
| Temperature Coefficients of Voc(%)°C    | -0.38                                |
| Temperature Coefficients of Pm(%)°C     | -0.47                                |
| Temperature Coefficients of Im(%)°C     | +0.04                                |
| Temperature Coefficients of Vm(%)°C     | -0.38                                |
| Temperature Range                       | -40°C to +85°C                       |
| Tolerance Wattage(e.g.+/-5%)            | ±5%                                  |
| Surface Maximum Load Capacity           | 2400Pa                               |
| Allowable Hail Load                     | 23m/s ,7.53g                         |
| Weight Per Piece(KG)                    | 18.6                                 |
| Junction Box Type                       | Pass the TUV Certificate             |
| Bypass Diode Rating(A)                  | 12                                   |
| Caple & Connector Type                  | Pass the TUV Certificate             |
| Cell Efficiency (%)                     | 15.06%                               |
| Module Efficiency (%)                   | 13.68%                               |
| Frame(Material Corners,etc.)            | 40#                                  |
| Backing (Brand Type)                    | TPT                                  |
| Warranty                                | 90% of 10 years,80% of 25 years.     |
| Standard Test Conditions                | AM1.5 1000W/m <sup>2</sup> 25 +/-2°C |
| FF (%)                                  | 70-76%                               |
| Packing                                 | Wooden box                           |
| 1*20'                                   | 14Pallets / 316pcs                   |
| 1*40'HQ                                 | 28 Pallets / 756pcs                  |

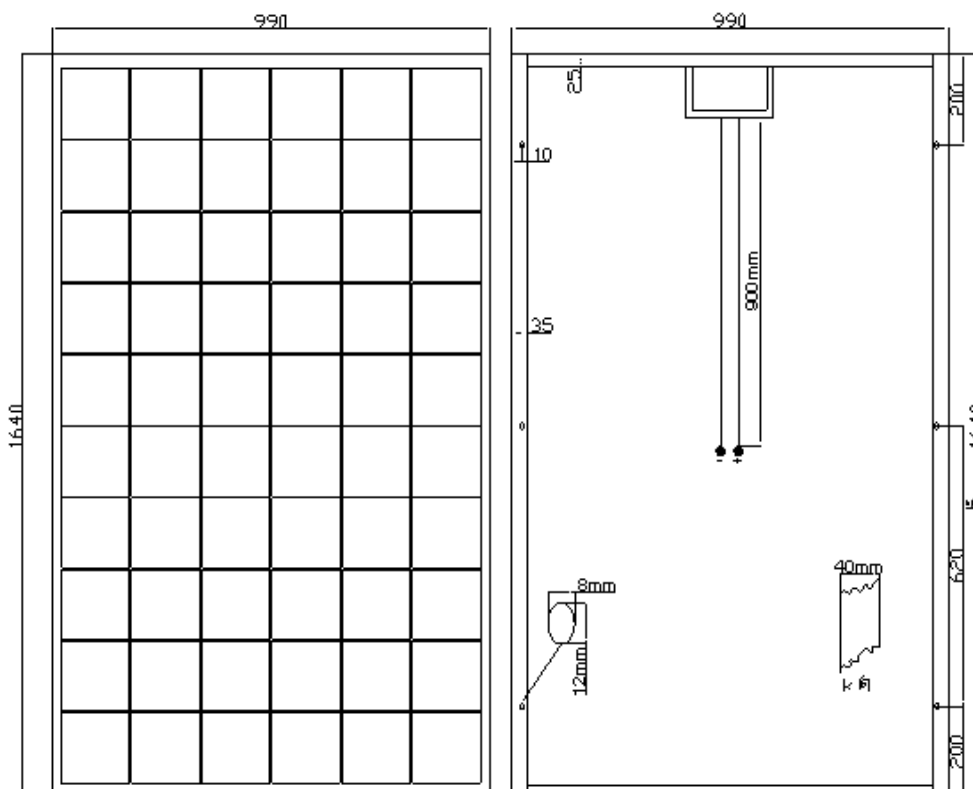


**Model(ZH220CE-30P)  
Specification**

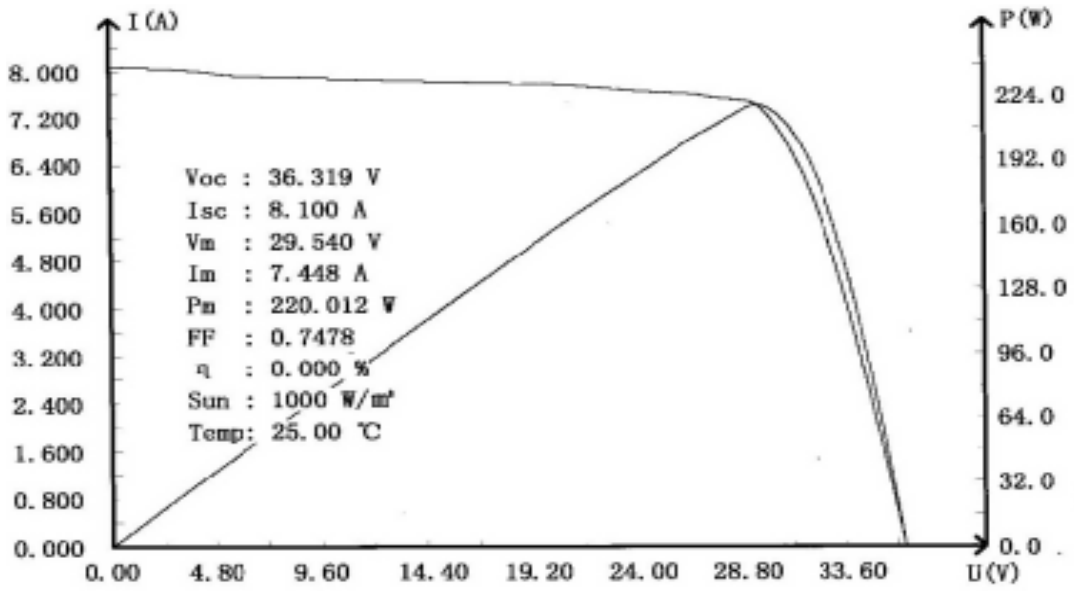
**ZhiHe Solar Module**

**Using high quality materials to  
provide high quality solar modules**

- 1.Solar cells:Jetion cells
- 2.Glass:Fiat 's from Shanghai
- 3.EVA:First Hot-Melt Adhesive from Hangzhou China
- 4.TPT:JOLYWOOD from Suzhou,China
- 5.Junction box and connectors:GZX from Cixi,China or Rehe from Cixi,China
- 6.Silica gel:Dow Corning



### IV Curve



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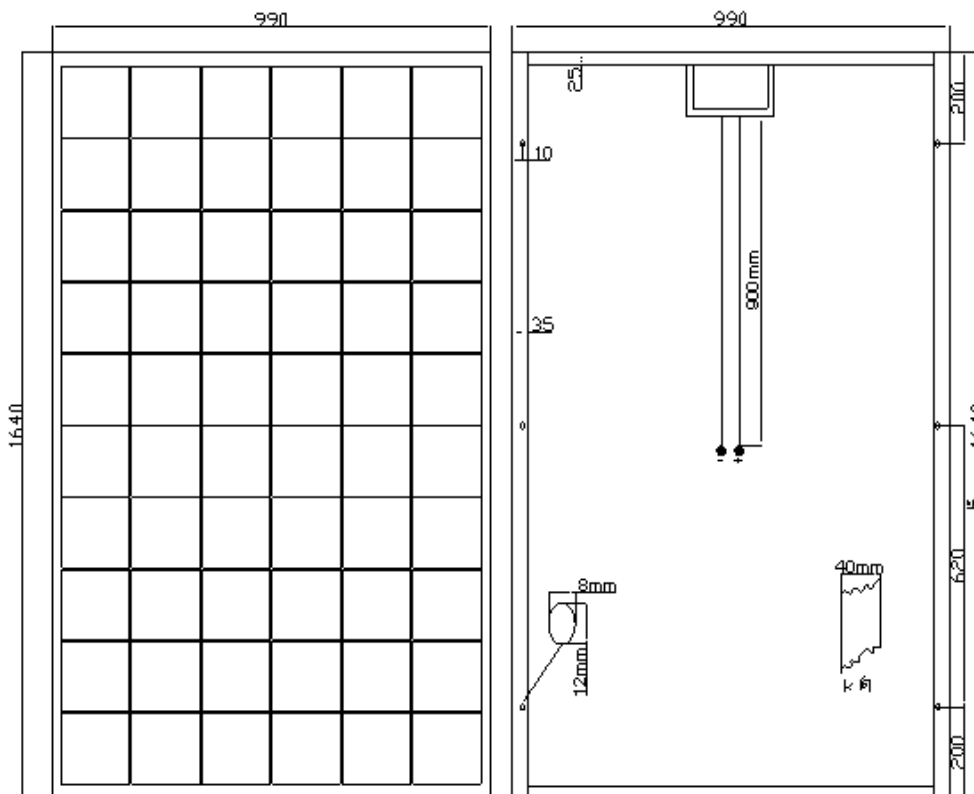
| <b>Model(ZH225CE-30P)Specifications</b> |                                      |
|---|--------------------------------------|
| <b>ITEM NO.:</b>                        | <b>ZH225CE-30P</b>                   |
| Maximum Power(W)                        | 225                                  |
| Optimum Power Voltage(Vmp)              | 29.52                                |
| Optimum Operatige Current(Imp)          | 7.62                                 |
| Open Circuit Voltage(Voc)               | 36.18                                |
| Short Circuit Current(Isc)              | 8.15                                 |
| Solar Cell:                             | 156*156 Poly                         |
| Number of Cell(pcs)                     | 6*10                                 |
| Brand Name of Solar Cells               | Jetion Cell                          |
| Size of Module(mm)                      | 1640*990*40                          |
| Front Glass Thikness(mm)                | 3.2                                  |
| Temperature Coefficients of Isc(%)°C    | +0.04                                |
| Temperature Coefficients of Voc(%)°C    | -0.38                                |
| Temperature Coefficients of Pm(%)°C     | -0.47                                |
| Temperature Coefficients of Im(%)°C     | +0.04                                |
| Temperature Coefficients of Vm(%)°C     | -0.38                                |
| Temperature Range                       | -40°C to +85°C                       |
| Tolerance Wattage(e.g.+/-5%)            | ±5%                                  |
| Surface Maximum Load Capacity           | 2400Pa                               |
| Allowable Hail Load                     | 23m/s ,7.53g                         |
| Weight Per Piece(KG)                    | 18.6                                 |
| Junction Box Type                       | Pass the TUV Certificate             |
| Bypass Diode Rating(A)                  | 12                                   |
| Caple & Connector Type                  | Pass the TUV Certificate             |
| Cell Efficiency (%)                     | 15.40%                               |
| Module Efficiency (%)                   | 13.99%                               |
| Frame(Material Corners,etc.)            | 40#                                  |
| Backing (Brand Type)                    | TPT                                  |
| Warranty                                | 90% of 10 years,80% of 25 years.     |
| Standard Test Conditions                | AM1.5 1000W/m <sup>2</sup> 25 +/-2°C |
| FF (%)                                  | 70-76%                               |
| Packing                                 | Wooden box                           |
| 1*20'                                   | 14Pallets / 316pcs                   |
| 1*40'HQ                                 | 28 Pallets / 756pcs                  |

**Model(ZH225CE-30P)  
Specification**

**ZhiHe Solar Module**

**Using high quality materials to  
provide high quality solar modules**

- 1.Solar cells:Jetion cells
- 2.Glass:Fiat 's from Shanghai
- 3.EVA:First Hot-Melt Adhesive from Hangzhou China
- 4.TPT:JOLYWOOD from Suzhou,China
- 5.Junction box and connectors:GZX from Cixi,China or Rehe from Cixi,China
- 6.Silica gel:Dow Corning



# IV Curve

