



MORGAN RISHENG

ECSB-280/285/290P60

60片
Efficient all-black module

Electrical Paramete @ STC

| | | | |
|--|-------|-------|-------|
| Maximum power Pmp (W) | 280 | 285 | 290 |
| The power of tolerance | 0~+3% | 0~+3% | 0~+3% |
| Operating voltage at the maximum power point Vmp (V) | 31.3 | 31.8 | 31.9 |
| Maximum power point operating current Imp (A) | 8.89 | 8.97 | 9.10 |
| Open-circuit voltage Voc (V) | 38.5 | 38.8 | 39.1 |
| Short-circuit current Isc (A) | 9.37 | 9.46 | 9.62 |
| The efficiency of the component (%) | 17.2 | 17.5 | 17.8 |

*Standard test conditions (STC) : irradiance1000W/m², Battery temperature25°C, SpectrumAM1.5

Electrical Paramete @ NOCT

| | | | |
|---|-------|-------|-------|
| Maximum power Pmp(W) | 206.8 | 210.5 | 214.3 |
| Operating voltage at the maximum power point Vmp(V) | 29.15 | 29.42 | 29.53 |
| Maximum power point operating current Imp(A) | 7.09 | 7.16 | 7.26 |
| Open circuit voltage Voc(V) | 35.63 | 35.89 | 36.18 |
| Short circuit current Isc(A) | 7.57 | 7.64 | 7.77 |

*The battery plate is labeled working temperature conditions(NOCT): irradiance800W/m², Ambient temperature20°C, SpectrumAM1.5, Wind speed1m/s

Temperature Coefficient

| | |
|---|------------|
| Maximum power Pmp temperature coefficient | -0.39%/°C |
| Open circuit voltage VOC temperature coefficient | -0.30%/°C |
| Short circuit current LSC temperature coefficient | +0.050%/°C |

Mechanical Parameter

| | |
|-----------------------------------|----------------------------------|
| Battery specification | all-black module 156.75×156.75mm |
| Number of component and batteries | 60PCS(6×10) |
| Component size | 1640×992×35mm |
| Weight | 18.5kg |
| Component frame | Anodize |
| Junction box | IP67, 3 diode |
| Cable | 4.0mm ² , 900mm |

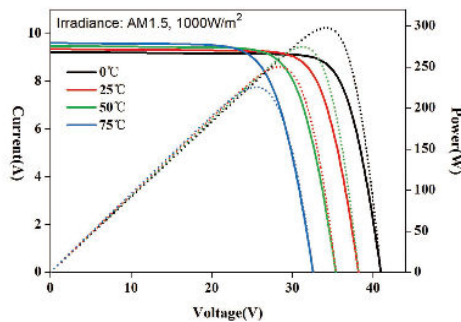
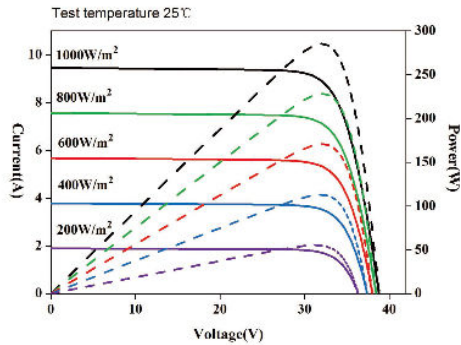
Operating Parameter

| | |
|--|-----------|
| Maximum system voltage (V) | 1000(DC) |
| Working temperature (°C) | -40~+85 |
| Maximum wind load/maximum snow load (pa) | 2400/5400 |
| Maximum fuse rated current (A) | 15 |
| Application level | Class A |
| Fire rating | Class C |
| Rated battery operating temperature (°C) | 45±2 |

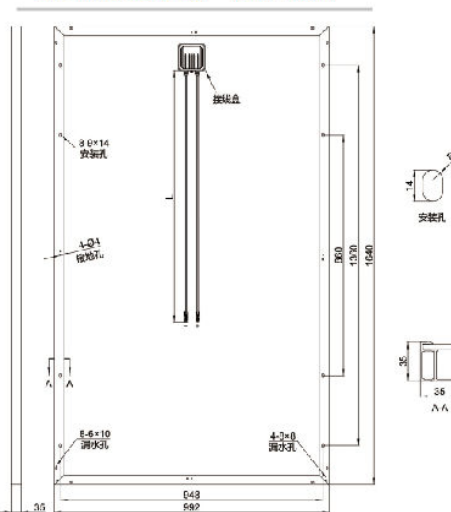
Packaging information

| | |
|---------------------------------|---------------------|
| loading 9.5m*13m/17.5m | 670 / 938 / 1573PCS |
| The container 20'GP/40'GP/40'HQ | 360 / 840 / 896PCS |
| Single tower number | 30PCS |

I-V curve/ ECS -285



Assembly drawing (Unit: mm)



Product Drawing

