



MONOCRYSTALLINE MODULE

**IBSP-530-550W**

530-550 W / 72 Cells

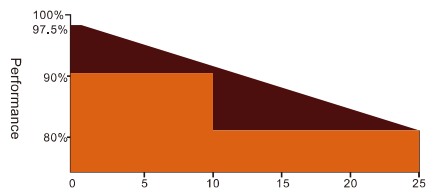


### QUALITY&EFFICIENCY CHARACTERISTIC

- Conversion efficiency up to 19.5%  
Advanced solar cell surface texturing technology and excellent low-light performance
- Super load capacity  
Certified to withstand high wind loads(2400 Pa) and snow loads (5400Pa) of the latest standard test of module mechanical load
- Anti-PID  
Excellent anti-PID module design
- +2% Light transmittance  
Adopting the self-cleaning coated glass with high light transmittance
- 0~+3W Positive tolerance  
Positive tolerance guarantee reliable power output

### LINEAR WARRANTY FOR MODULE

- 25 25-year linear power warranty
- 10 10-year warranty for product material & process



## PTNE-150-190W

### ELECTRICAL DATA AT STC \*

|                            | 150W   | 160W   | 170W   | 180W   | 190W   |
|----------------------------|--------|--------|--------|--------|--------|
| Power output(Pmax)         | 150W   | 160W   | 170W   | 180W   | 190W   |
| Power tolerance            | 0~+3W  | 0~+3W  | 0~+3W  | 0~+3W  | 0~+3W  |
| Module efficiency          | 15.24% | 16.26% | 17.27% | 18.29% | 19.31% |
| Maximum power voltage(Vmp) | 17.71V | 18.43V | 18.88V | 19.25V | 19.98V |
| Maximum power current(Imp) | 8.48A  | 8.69A  | 9.01A  | 9.36A  | 9.53A  |
| Open circuit voltage(Voc)  | 22.86V | 23.11V | 23.51V | 23.91V | 24.34V |
| Short circuit current(Isc) | 9.47A  | 9.54A  | 9.72A  | 9.95A  | 10.12A |

\*Standard Test Conditions: Irradiance: 1000W/m<sup>2</sup> • Cell temperature: 25°C • AM: 1.5

### ELECTRICAL DATA AT NOCT \*

|                            | 111.94W | 119.4W | 126.87W | 134.33W | 141.79W |
|----------------------------|---------|--------|---------|---------|---------|
| Power output(Pmax)         | 111.94W | 119.4W | 126.87W | 134.33W | 141.79W |
| Maximum power voltage(Vmp) | 16.56V  | 17.24V | 17.66V  | 18.00V  | 18.69V  |
| Maximum power current(Imp) | 6.85A   | 7.02A  | 7.27A   | 7.55A   | 7.70A   |
| Open circuit voltage(Voc)  | 21.31V  | 21.54V | 21.91V  | 22.28V  | 22.78V  |
| Short circuit current(Isc) | 7.58A   | 7.64A  | 7.78A   | 7.96A   | 8.10A   |

\*Nominal Operating Cell Temperature: Irradiance: 800W/m<sup>2</sup> • Ambient temperature: 20°C • AM: 1.5 • Wind speed: 1 m/s

### TEMPERATURE CHARACTERISTICS

|                                 |            |
|---------------------------------|------------|
| NOCT                            | 45°C ± 2°C |
| Temperature coefficient of Pmax | -0.396%/°C |
| Temperature coefficient of Voc  | -0.31%/°C  |
| Temperature coefficient of Isc  | +0.06%/°C  |

### MAXIMUM RATINGS

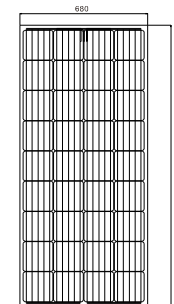
|                             |             |
|-----------------------------|-------------|
| Operating temperature range | -45°C~+85°C |
| Maximum system voltage      | 1500V       |
| Max series fuse rating      | 15A         |
| Max front load(e.g.:snow)   | 5400Pa      |
| Max back load(e.g.:wind)    | 2400Pa      |

### MECHANICAL CHARACTERISTICS

|                 |                             |
|-----------------|-----------------------------|
| Cell type       | Monocrystalline (156x156mm) |
| Number of cells | 36                          |
| Dimensions      | 1480x680x30mm               |
| Weight          | 8.67kg                      |
| Glass           | 3.2 mm tempered glass       |
| Frame           | Anodized aluminium alloy    |
| Junction box    | IP 67                       |
| Cable           | 0.9m                        |
| Connector       | MC 4 or MC 4 compatible     |
| Back sheet      | White sheet                 |

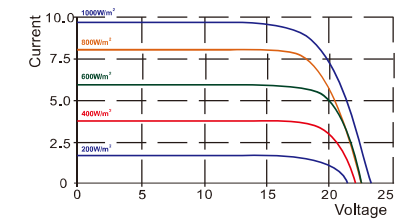
Container loading quantity with pallets : 20GP: 722 pallets / 40GP: 1604pallets / 40HQ-HC: 1796pallets

### SPECIFICATION



Approximate ±2mm tolerance for the length and width

### I-V CURVE



Because of technical changes and product updates, the products of this brochure may differ from the actual products, and Pattern Solar Technology Group has the right to make adjustments to the above-mentioned information at any time without further notice.