

DS-165P6-36

Poly-Crystalline Solar Module
140-165 Watt 6inch 36cells



Unique cell design with 5 bus-bar for higher efficiency and module stability



Excellent low light performance
On cloudy days, mornings and evenings



PID Free Module
Anti-PID material
Anti-PID cell technology



0 to +3% positive tolerance



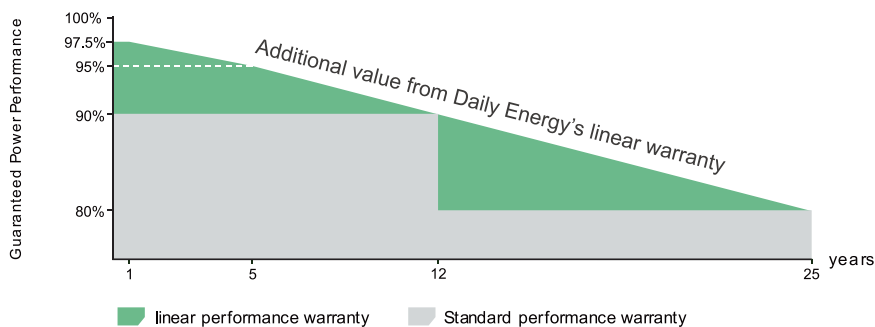
High conversion efficiency
High module efficiency to guarantee power output



Wind load of up to 2400Pa and heavy snow load of up to 5400Pa

LINEAR PERFORMANCE WARRANTY

- ※ 10 years for product defects in materials and workmanship
- ※ 12 years for 90% of warranted minimum power output
- ※ 25 years for 80% of warranted minimum power output



ELECTRICAL PERFORMANCE

All specified Parameters are at STC 25°C Ambient, 1000W/m² irradiance and AM 1.5

| Type | | DS-140P6-36 | DS-145P6-36 | DS-150P6-36 | DS-155P6-36 | DS-160P6-36 | DS-165P6-36 |
|------------------------|---------|-------------|-------------|-------------|-------------|-------------|-------------|
| Power Output | Pmax(W) | 140 | 145 | 150 | 155 | 160 | 165 |
| Power Output Tolerance | Pmax(%) | 0~+3 | 0~+3 | 0~+3 | 0~+3 | 0~+3 | 0~+3 |
| Max-Power Voltage | Vmp(V) | 18.45 | 18.69 | 18.84 | 19.02 | 19.24 | 19.46 |
| Max-Power Current | Imp(A) | 7.59 | 7.76 | 7.96 | 8.15 | 8.32 | 8.48 |
| Open-Circuit Voltage | Voc(V) | 23.46 | 23.79 | 24.01 | 24.25 | 24.33 | 24.57 |
| Short-Circuit Current | Isc(A) | 8.03 | 8.21 | 8.43 | 8.61 | 8.87 | 9.04 |
| Cell Efficiency | (%) | 16.30 | 16.90 | 17.50 | 18.00 | 18.60 | 19.20 |
| Module Efficiency | (%) | 14.10 | 14.60 | 15.10 | 15.60 | 16.10 | 16.60 |

THERMAL CHARACTERISTICS

| | | |
|------------------------------------|----------|--------|
| Nominal Operating Cell Temperature | NOCT(°C) | 45±2 |
| Temperature Coefficients of Pmax | (%/°C) | -0.420 |
| Temperature Coefficients of Voc | (%/°C) | -0.304 |
| Temperature Coefficients of Isc | (%/°C) | 0.040 |

OPERATING CONDITIONS

| | |
|------------------------------|---------------|
| Maximum System Voltage (VDC) | 1000V(IEC) |
| Maximum Series Fuse (A) | 15 |
| Operating Temperature (°C) | -40~+85 |
| Maximum Load(snow/wind) | 5400pa/2400pa |

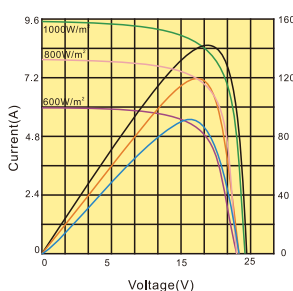
MECHANICAL CHARACTERISTICS

| | |
|---------------------------------|--|
| Solar cells(type/dimension) | Poly-Crystalline Silicon/156mm*156mm |
| Cells number | 36pcs(4*9) |
| Front cover(material/thickness) | Low iron tempered glass/3.2mm |
| Backsheet(color) | White |
| Frame(material/color) | Anodized aluminum alloy/Silver |
| Junction box(protection degree) | ≧ IP65 |
| Cables/Plug Connector | Diameter 4mm ² , Length 900mm/MC4 or MC4 compatible |
| Module Dimension | 1480×670×35mm |
| Module Weight | 12kg |

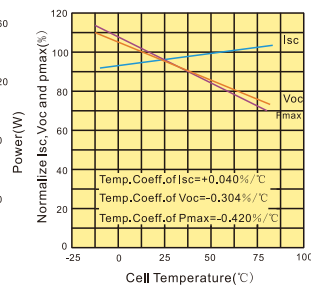
PACKING DETAILS

| Container | 20'GP | 40'HQ |
|-----------------------|-------|-------|
| Pieces per pallet | 66 | 80 |
| Pallets per container | 7 | 15 |
| Pieces per container | 462 | 1200 |

Electrical performance
(cell temperature:25°C)



Temperature dependence of Isc, Voc and pmax



Irradiance dependence of Isc, Voc and pmax cell temperature:25°C

