

TEMPERATURE COEFFICIENTS

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|--------------------------------------|------------|
| NOCT | 45 +/-2°C |
| Voltage temperature coefficient(Voc) | -0.35%/°C |
| Current temperature coefficient(Isc) | +0.033%/°C |
| Power temperature coefficient(Pmpp) | -0.40%/°C |
| Minimum power tolerance | 0 ~ +3% |

NOCT:Nominal Operating cell Temperature:-40°C to + 85°C



MECHANICAL DATA

| | |
|---------------|--|
| Solar Cell | 60 Poly-crystalline 156 x 156mm |
| Front Glass | 3.2mm tempered |
| Junction Box | IP65 or IP67 rated (Aluminium) |
| Output Cables | 1000mm length cable/compliable with MC IV connectors |
| Frame | Anodized aluminium |
| Weight | 20Kg |
| Dimension | 1652x993x40mm |

WARRANTY AND CERTIFICATIONS

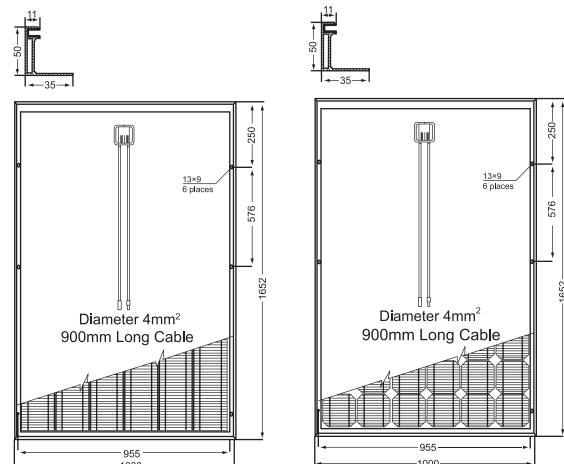
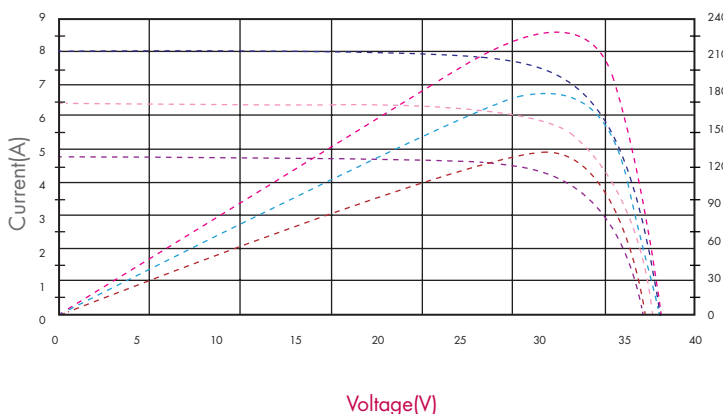
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|---------------|---|
| Warranty | 10 years workmanship, 12 years 90%, 25 years 80% power warranty |
| Certification | IEC61215, Safety tested IEC61730, CE |

ELECTRICAL DATA

| | | | | |
|----------------------------|--------------|-------|-------|-------|
| Nominal peak power(Wp) | 220W | 230W | 235W | 240W |
| Nominal voltage(Vmp) | 29.5V | 29.9V | 30.0V | 30.1V |
| Nominal current(Imp) | 7.46A | 7.69A | 7.83A | 7.97A |
| Open circuit voltage(Voc) | 36.8V | 37.2V | 37.2V | 37.4V |
| Short circuit current(Isc) | 8.30A | 8.36A | 8.42A | 8.56A |
| Module efficiency | 13.3% | 13.9% | 14.2% | 14.5% |
| Operating Temperatre | -40 to +85°C | | | |
| Maximum System Voltage | 1000V DC | | | |

STC:1000W/m²,25°C,AM=1.5

Characteristics
Module IV Graph 220W



—○— STC IV data —○— 800W/m² IV data —○— 600W/m² IV data —○— STC IV data —○— 800W/m² PV data —○— 600W/m² PV data

