

SOLARTECH POWER

SPM080PR/085PR/090PR

SPECIFICATIONS

| | | |
|------------------------------|-------------------------------------|------------------|
| CELL | Multicrystalline silicon solar cell | 156mmx104mm |
| No. of cells and connections | 36(3x12) | |
| Dimension of module | 1331x508x35(mm) | 52.4x20x1.38(in) |
| Weight | 9kg | 19.81b |

Characteristics

| Model | SPM080PR | SPM085PR | SPM090PR |
|----------------------------|----------|----------|----------|
| Power at STC(Pm) | 80W | 85W | 90W |
| Maximum power voltage(Vpm) | 17.3V | 17.9V | 18.30V |
| Maximum power current(Ipm) | 4.7A | 4.84A | 5.04A |
| Open circuit voltage(Voc) | 21.9 V | 21.9V | 22.2V |
| Short circuit current(Isc) | 5.1A | 5.17A | 5.38A |
| Tolerance | ± 5% | ± 5% | ± 5% |
| Module efficiency | 11.79% | 12.53% | 13.27% |

STC: Temperature 25°C, Irradiance 1000W/m², AM=1.5

Limits

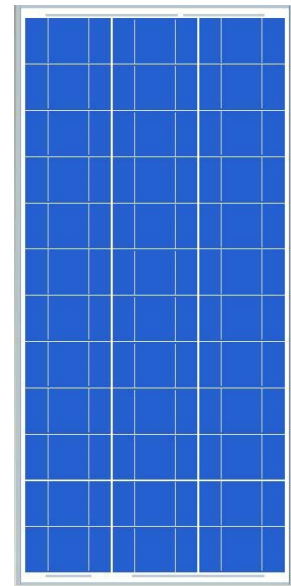
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|------------------------|--------------|
| Operating temperature | -40 to +85°C |
| Maximum system voltage | 1000V DC |
| Series fuse rating | 12A |

Components & Mechanical Data

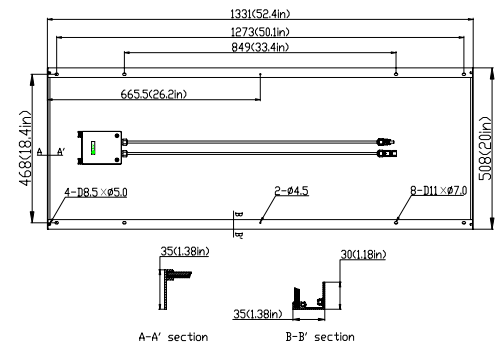
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|------------------------|--------------------------------------|
| Front Glass | 3.2mm tempered |
| Junction Box | IP-65 rated |
| Frame | Anodized aluminum alloy type 6063-T5 |
| Encapsulation Material | EVA(0.5±0.05mm thickness) |
| Back Foil | White TPT(0.32±0.03mm thickness) |
| Temperature Range | -40°C to +90°C |
| Max Load | 5400Pa |

Temperature coefficient

| | |
|------------------------------------|------------------|
| Nominal Operation Cell Temperature | 48°C±2°C |
| Current temperature coefficient | 0.06±0.01 %/K |
| Voltage temperature coefficient | - (78±10) mv/k |
| Power temperature coefficient | - (0.5±0.05) %/k |



Back of the module



IV CURVES

