

# SOLARTECH POWER

## SPM040WP

### SPECIFICATIONS

|                              |                                     |                    |
|------------------------------|-------------------------------------|--------------------|
| CELL                         | Multicrystalline silicon solar cell | 156mmx26mm         |
| No. of cells and connections | 68(4x17)                            |                    |
| Dimension of module          | 665x537x35(mm)                      | 26.2x21.1x1.38(in) |
| Weight                       | 5kg                                 | 11.01b             |

### Characteristics

|                            |          |  |
|----------------------------|----------|--|
| Model                      | SPM040WP |  |
| Power at STC(Pm)           | 40W      |  |
| Maximum power voltage(Vpm) | 33.9V    |  |
| Maximum power current(Ipm) | 1.20A    |  |
| Open circuit voltage(Voc)  | 41.3V    |  |
| Short circuit current(Isc) | 1.30A    |  |
| Tolerance                  | ±5%      |  |
| Module efficiency          | 11.2%    |  |

STC: Temperature 25°C, Irradiance 1000W/m<sup>2</sup>, AM=1.5

### Limits

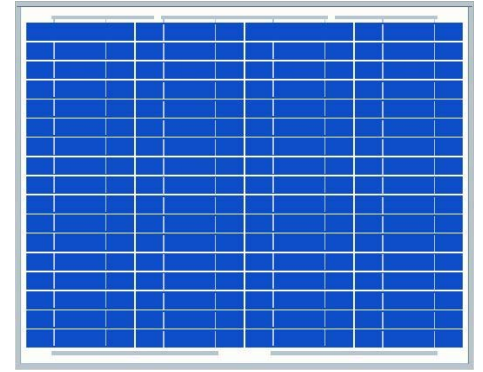
|                        |              |
|------------------------|--------------|
| Operating temperature  | -40 to +85°C |
| Maximum system voltage | 1000V DC     |
| Series fuse rating     | 12A          |

### Components & Mechanical Data

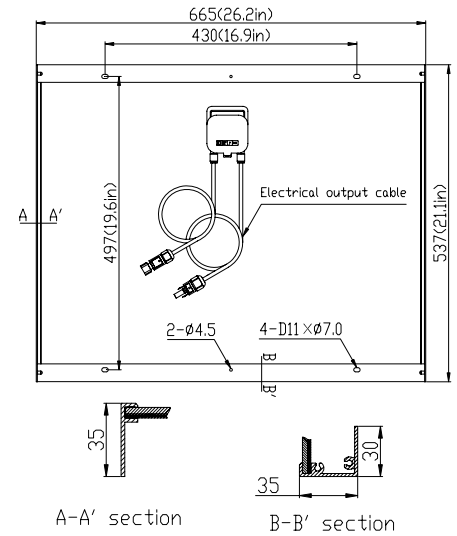
|                        |                                      |
|------------------------|--------------------------------------|
| Front Glass            | 3.2mm tempered                       |
| Junction Box           | IP-65 rated                          |
| Frame                  | Anodized aluminum 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



A-A' section

B-B' section

### IV CURVES

