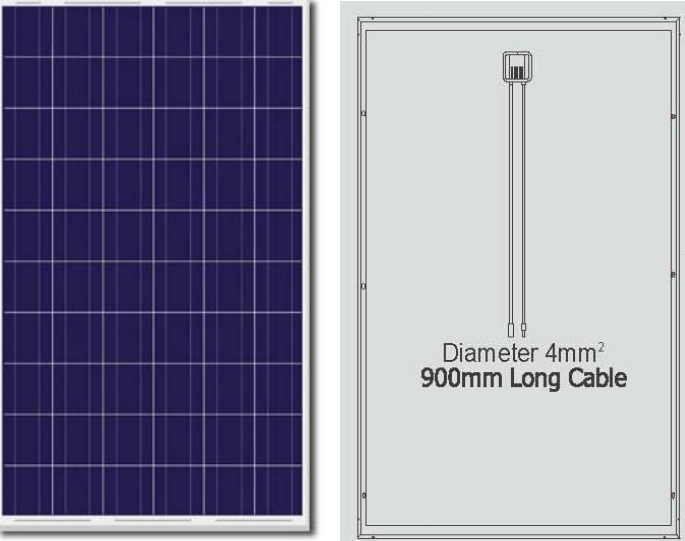


## SPV220-20 Polycrystalline Solar Module

| DRAWING  |  | SPECIFICATION                                  |  | LIMIT                             |                |
|--|--|--|--|-----------------------------------|----------------|
|  | <b>Cell</b>                              | Polycrystalline Silicon Solar Cell 156mmx156mm |  | <b>Operating Temperature</b>      | -40°C to +85°C |
|  | <b>No. of cells and connection</b>       | 60 / 6 x 10pcs                                 |  | <b>Max. system voltage</b>        | 1000V          |
|  | <b>Module dimension</b>                  | 1652 x 1002 x 50mm                             |  | <b>Max. fuse / current rating</b> | 10A            |
|  | <b>Module weight</b>                     | 21Kgs  |  |                                   |                |
|  | <b>Temperature Coefficient of Module</b> |  |  |                                   |                |
| <b>Isc</b>   | 0.06883%                                 |  |  |                                   |                |
| <b>Voc</b>   | -0.31841%                                |  |  |                                   |                |
| <b>Pmpp</b>  | -0.44887%                                |  |  |                                   |                |



| Characteristics             |   |                                |           |           |           |           |           |           |           |           |
|-----------------------------|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Module Model                |   | SPV200-20                      | SPV205-20 | SPV210-20 | SPV215-20 | SPV220-20 | SPV225-20 | SPV230-20 | SPV235-20 | SPV240-20 |
| Maximum Power (Pmax)        | W | 200                            | 205       | 210       | 215       | 220       | 225       | 230       | 235       | 240       |
| Encapsulation               |   | Glass/EVA/Cells/ EVA/Backsheet |           |           |           |           |           |           |           |           |
| Cell Efficiency             | % | 13.7                           | 14.0      | 14.4      | 14.7      | 15.1      | 15.4      | 15.8      | 16.1      | 16.4      |
| Tolerance                   | % | ±3%                            |           |           |           |           |           |           |           |           |
| No. of bypass diodes        |   | 6                              |           |           |           |           |           |           |           |           |
| Open Circuit Voltage (Voc)  | V | 36                             | 36.2      | 36.4      | 36.6      | 36.7      | 36.9      | 37.1      | 37.2      | 37.4      |
| Short Circuit Current (Isc) | A | 7.7                            | 7.88      | 8.03      | 8.18      | 8.30      | 8.38      | 8.40      | 8.44      | 8.45      |
| Maximum Power Voltage (Vmp) | V | 29                             | 29.1      | 29.2      | 29.3      | 29.3      | 29.4      | 29.4      | 29.5      | 29.6      |
| Maximum Power Current (Imp) | A | 6.9                            | 7.04      | 7.19      | 7.34      | 7.51      | 7.65      | 7.82      | 7.97      | 8.11      |

STC: Irradiance 1000W/m<sup>2</sup> , Module temperature 25°C, AM1.5 Product Standards: IEC61215,IEC61730.