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Solar Panel Guide Specification Data Sheet

Solar Tech Co., Ltd

STM 100

80-S5C1

Also available on the web at
EnergyPal.com/solar-tech-co-ltd-solar-panels/80-s5c1

SOLARTECH SOLAR MODULE

SolarTech SOLAR TECH CO.,Ltd

STM 100 Module Series



SOLARTECH's photovoltaic modules offer high-powered, reliable performance for solar project.

Electrical Characteristics

| MODEL | 80-S5C1 | 85-S5 | 100-S5 |
|----------------------------------|-----------------------|-----------------------|-----------------------|
| Maximum power [Pmax] | 80W | 85W | 100W |
| Voltage at Pmax [Vmp] | 16,60V | 18,20V | 20,62V |
| Current at Pmax [Imp] | 4,82A | 4,68A | 4,85A |
| Open circuit voltage [Voc] | 20,10V | 22,10V | 24,76V |
| Short circuit current [Isc] | 5,18A | 5,10A | 5,26A |
| Temperature coefficient of Power | -0,43%/K | -0,43%/K | -0,43%/K |
| Temperature coefficient of Voc | -0,34%/K | -0,34%/K | -0,34%/K |
| Temperature coefficient of Isc | 0,04%/K | 0,04%/K | 0,04%/K |
| Output tolerance | ±5% | ±5% | ±5% |
| No. of cells & connections | 32 in series | 36 in series | 40 in series |
| Cell type | 5" Mono | 5" Mono | 5" Mono |
| Module efficiency | 9,48% | 9,00% | 9,56% |
| Maximum series fuse rating | 10A | 10A | 10A |
| Maximum system voltage | 600V | 600V | 600V |
| Dimension | 1072 X 539 Depth:40mm | 1200 X 539 Depth:40mm | 1328 X 539 Depth:40mm |
| Weight | 7,4kg | 8,0kg | 8,9kg |

-All data at STC[Standard Test Conditions], Above data may be changed without prior notice

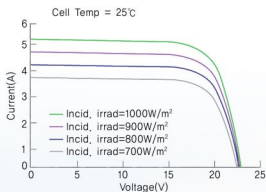
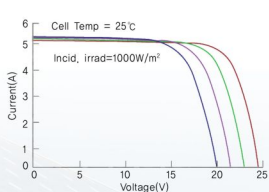
Mechanical Characteristics

| | |
|---------------|---|
| Frame | Clear anodized aluminum frame, Color : silver |
| Bypass diodes | Bypass diodes to prevent power decrease by shade |
| Construction | Front : High transmission Low-iron tempered glass, 3,2mm Encapsulant : EVA Backsheet : Weatherproof film |

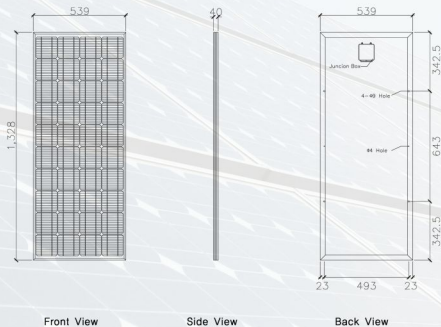
Limited Warranty

Freedom from defects in materials and workshop for 5 years,
10 years for 90% of warranted minimum output power
25 years for 80% of warranted minimum output power

I-V Curves



Module Diagramz



Installation Safety Guide

- Only qualified personnel should install or perform maintenance
- Be aware of dangerous high DC voltage
- Do not damage or scratch the rear of the module
- Do not handle or install modules when they are wet