

# SOLARTECH SOLAR MODULE

SolarTech SOLAR TECH CO.,Ltd

## STM 180 Module Series



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

### Electrical Characteristics

MODEL	180-S5	185-S5
Maximum power [P <sub>max</sub> ]	180W	185W
Voltage at P <sub>max</sub> [V <sub>mp</sub> ]	37,12V	36,78V
Current at P <sub>max</sub> [I <sub>mp</sub> ]	4,85A	5,03A
Open circuit voltage [V <sub>oc</sub> ]	44,56V	44,86V
Short circuit current [I <sub>sc</sub> ]	5,26A	5,39A
Temperature coefficient of Power	-0,43%/K	-0,43%/K
Temperature coefficient of V <sub>oc</sub>	-0,34%/K	-0,34%/K
Temperature coefficient of I <sub>sc</sub>	0,04%/K	0,04%/K
Output tolerance	±3%	±3%
No. of cells & connections	72 in series	72 in series
Cell type	5" Mono	5" Mono
Module efficiency	14,439%	14,84%
Maximum series fuse rating	10A	10A
Maximum system voltage	600V	600V
Dimension	1584mm X 787mm Depth:40mm	1584mm X 787mm Depth:40mm
Weight	14,5kg	14,5kg

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

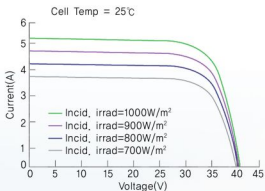
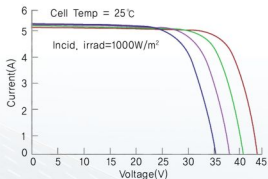
### Mechanical Characteristics

Frame	Clear anodized aluminum frame, Color : silver
Output cables	Cable with polarized weatherproof DC rated connector
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

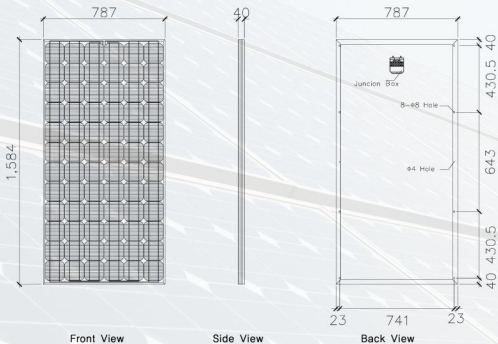
### Limited Warranty

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