

TF Series

SUNGOLD FLEXIBLE SOLAR PANEL

55W - 285W

Management System Certifications



ISO 9001



ISO 14001



ISO 45001

Product Certifications



CE



RoHS



Product Features



Flexible Lightweight Design

Thin module format suits curved surfaces and weight-sensitive installations.



Marine & Outdoor Use

ETFE surface supports yacht, vehicle and outdoor power applications.



Impact-Resistant Structure

Composite construction helps improve durability during handling and use.



Compact Space Fit

Multiple sizes support limited mounting areas on decks, cabins and roofs.



Easy System Integration

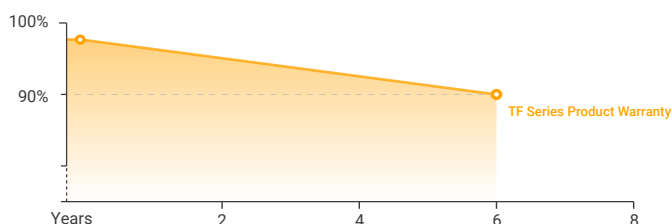
Connector and cable options support common off-grid power systems.



OEM/ODM Support

Custom size, cable length, connector and branding options are available.

Warranty



6 YEARS

TF Series product warranty

Warranty terms apply according to the confirmed project application and issued warranty document.

Complete Model Range

Parameter	SG-TF-M2-55W	SG-TF-M2-100W	SG-TF-M2-115W	SG-TF-M2-140W	SG-TF-M2-170W	SG-TF-M2-210W	SG-TF-M2-255W	SG-TF-M2-285W
Maximum Power Pmax	55W	100W	115W	140W	170W	210W	255W	285W
Open-Circuit Voltage Voc	21.8V	28.5V	22.3V	27.1V	24.5V	40.7V	48.9V	27.1V
Operating Voltage Vmp	18.6V	24.4V	19.1V	23.2V	20.9V	34.8V	41.8V	23.2V
Short-Circuit Current Isc	3.10A	4.30A	6.32A	6.34A	8.54A	6.34A	6.40A	12.90A
Operating Current Imp	2.96A	4.10A	6.03A	6.04A	8.14A	6.04A	6.11A	12.29A
Dimensions (mm)	840 × 395 × 3	960 × 580 × 3	1110 × 590 × 3	1020 × 765 × 3	1220 × 780 × 3	1495 × 765 × 3	1790 × 765 × 3	1500 × 1030 × 3
Cell Layout	2 × 16	3 × 14	3 × 11	4 × 10	4 × 18	4 × 15	4 × 18	8 × 10
Weight	1.15kg	1.92kg	2.26kg	2.70kg	3.29kg	3.95kg	4.73kg	5.34kg

Common Specifications

Parameter	Specification
Cell Type	Monocrystalline 182 Cells
Cell Efficiency	22.70%
Max. System Voltage	600V DC
Operating Temperature	-40°C to +85°C
Power Tolerance	±5%
Temp. Coeff. Pmax	-0.35%/°C
Temp. Coeff. Voc	-0.275%/°C
Temp. Coeff. Isc	+0.045%/°C
Module Format	Flexible

Mechanical Characteristics

Parameter	Specification
Module Construction	Flexible polymer-composite
Front Surface	ETFE surface
Back Sheet	White / black composite
Module Thickness	3mm
Junction Box	Model-dependent
Connector Type	MC4-compatible; customizable
Output Cable	Configuration customizable

Model Selection

Match power, voltage and available installation space.

Installation Conditions

Confirm surface, load, environment and mounting method.

System Matching

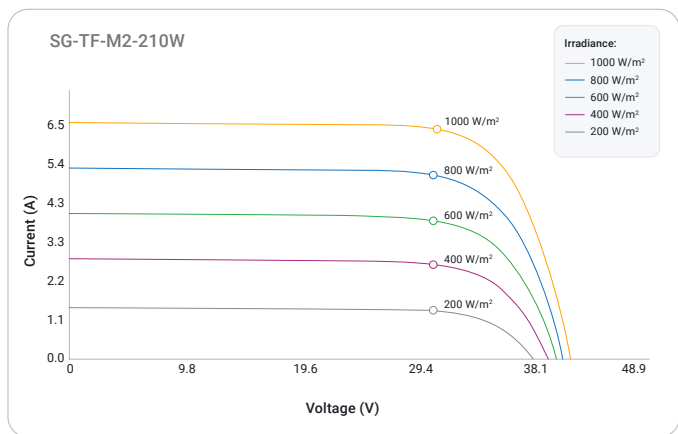
Check voltage, current and connected equipment limits.

Project Options

Confirm available cables, outputs, packaging and branding.

STC: Standard Test Conditions. Confirm the issued model datasheet and certification scope before order placement.

Representative I–V Curves



Configuration & Ordering

Item	Guidance
Model Selection	Refer to the electrical table
Product Dimensions	Confirm by selected model
Output Interface	Model- or project-dependent
Cable Length	Standard or customized
Packaging	Confirm by model and quantity
Label & Branding	OEM/private-label options
Documentation	Confirm project requirements