



POSITIVE POWER OUTPUT TOLERANCE

HAILSTORM RESISTANCE

ULTRA-LIGHT ALUMINUM FRAME

ANTI-REFLECTIVE GLASS

30 YEARS LINEAR POWER WARRANTY

15 YEARS PRODUCT WARRANTY

MONO CRYSTALLINE SOLAR PANELS - 60 CELLS

TOP-REASONS TO CHOOSE OUR MONO CRYSTALLINE PANELS

High efficiency

With the dimensions of a 60cell solar module, these panels can reach an extremely high power output thanks to the use of high-efficiency cells.

Captivating design

Photon Solar's mono crystalline solar panel has been designed to be exceptionally elegant and sober, perfect for each kind of roof. The black frame adds to its refined aesthetics.

Maximum stability and strenght

We employ top-quality materials for our products, thus ensuring their long-lasting reliability and their stability in any environmental conditions.

We provide certified "Made in EU" quality

Our panels are manufactured in Italy and endorsed by a qualified team.

ELECTRICAL CHARACTERISTICS (STC)*

	SCM-FB-270	SCM-FB-280
Nominal Output (Pmax)	270 W	280 W
Flash Test Power Tolerance	0/+5 W	0/+5 W
Voltage at Pmax (Vmp)	31.8 V	32.2 V
Current at Pmax (Imp)	8.50 A	8.70 A
Open Circuit Voltage (Voc)	39.1 V	39.5 V
Short Circuit Current (Isc)	8.99 A	9.20 A
Maximum System Voltage	1000 V	1000 V
Maximum Series Fuse Rating	15 A	15 A
Cell Efficiency	19.49 %	20.21 %
Module Efficiency	16.50 %	17.11 %

*STC (Standard Test Conditions): Irradiance 1000 W/m²; Module Temp. 25°C; Air Mass 1.5

MECHANICAL CHARACTERISTICS

Solar Cells	60 (6x10) mono crystalline	Diodes	3 Bypass diodes serviceable
Solar Cells Size	156x156 mm / 6x6"	Junction Box	IP65 rated
Front Cover	3.2 mm / 0.12" thick, low iron tempered glass	Connector	MC4 or compatible connector
Back Cover	TPT (Tedlar-PET-Tedlar)	Cables Length	900 mm / 35.4"
Encapsulant	EVA (Ethylene vinyl acetate)	Cables Section	4.0 mm ² / 0.006 in ²
Frame	Anodized aluminium alloy, double wall	Dimensions	1640x992x40 mm / 64.5x39x1.57"
Frame finishing	Black	Weight	18 Kg / 39.7 lb
Backsheet finishing	Black	Max. Load	Certified to 5400 Pa

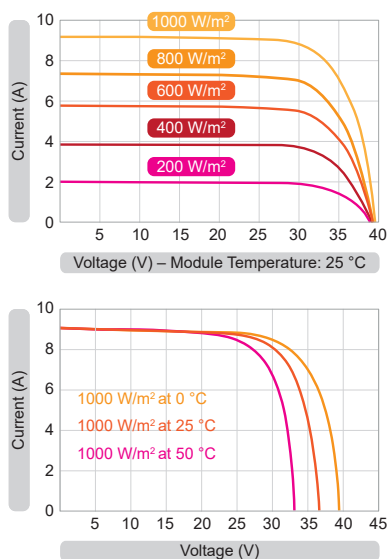
TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	-0.44 %/°C	Operating Temperature	-40 °C ~ +85°C
Temperature Coefficient of Voc	-0.30 %/°C	NOCT**	45±2 °C
Temperature Coefficient of Isc	0.06 %/°C	**NOCT (Normal Operating Cell Temperature): Irradiance 800 W/m ² ; Air 20°C; Wind speed 1m/s	

PACKAGING

Pallet dimensions	1700x1100x1200 mm / 67x43x47"	Weight	516 Kg / 1138 lb
Pieces per pallet	27	Pallets Stacked	up to two

CURRENT/VOLTAGE CHARACTERISTICS



DIMENSIONS

