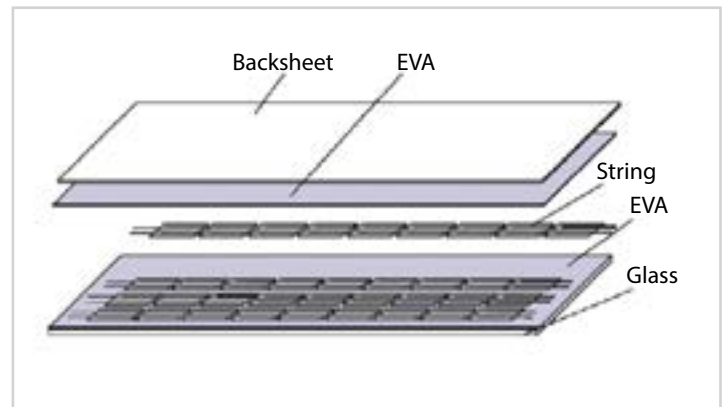


M60270-D 270W

60 (6×10) 156×156mm

Monocrystalline PV modules



Power tolerance (0~+3%) to ensure the high reliability of power output



Modules certified by TÜV to with stand high level of wind loads (2400 Pa) and snow loads (5400 Pa)



Special PV Module Insurances by world leading insurance company guarantees the benefit of PV investors and PV module users



Junction box and bypass diods guarantee the modules free of overheating and "hot spot effect"

5

YEAR

Manufacturing Warranty

12

YEAR WARRANTY

90% Power Output

25

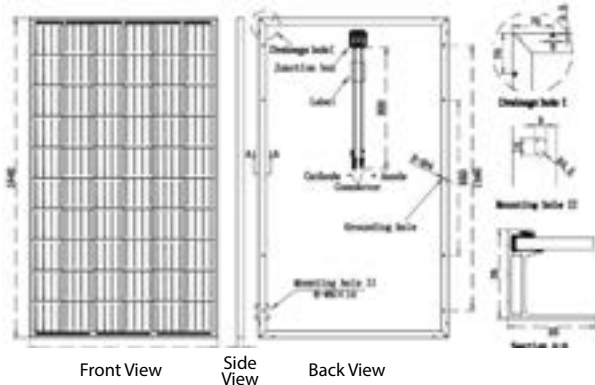
YEAR WARRANTY

80% Power Output

WHY ABI-SOLAR?

- PV modules are designed for maximum efficiency when used in insolation conditions of the Central European region.
- Each PV module by Abi-Solar is tested to verify its characteristics and specifications.
- Modules certified by global testing facilities: IEC61215, IEC61730, CE, ROHS.
- Manufacturing with international quality standarts and environment management system: ISO9001 and ISO14001.
- Maximum power and performance at minimal price ensure fast return of investments.
- Compatability with both on-grid and off-grid PV systems ga-rated.

MECHANICAL DRAWINGS



MECHANICAL SPECIFICATIONS

Cell type	Mono Crystalline 156x156 mm
Number of cells	60 (6x10)
Dimensions (AxBxC)	1640x991x35 mm
Weight	19 kg
Front Glass	3.2 mm tempered low iron glass
Frame	Anodized aluminum
Junction Box	IP67 with bypass diodes
Connector	MC4 compatible
Output cables	TUV, length ± 900mm, 4.0mm ²

ELECTRICAL CHARACTERISTICS

	STC	NOCT
Maximum Power (Pmax)	270W	197,37W
Short Circuit Current (Isc)	9.27A	7.31A
Open Circuit Voltage (Voc)	38.4V	35.2V
Maximum Power Current (Imp)	8.78A	6.95A
Maximum Power Voltage (Vmpp)	30.8V	28.4V
Module Efficiency	16.61%	
Power Tolerance	0~+5W	

STC irradiance: 1000 W/m² module temperature: +25 °C AM=1,5

NOCT irradiance: 800 W/m² module temperature: +20 °C AM=1,5

TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45 °C ±2 °C
Temperature Coefficient of Pmax	-0.44% °C
Temperature Coefficient of Voc	-0.34% °C
Temperature Coefficient of Isc	0.06% °C

PACKING CONFIGURATION

Container	20'GP	40'GP
Pieces per pallet	30	30
Pallets per container	14	28
Pieces per container	400	840

SYSTEM INTEGRATION PARAMETERS

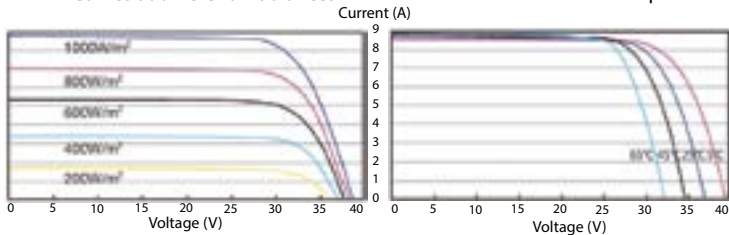
Maximum System Voltage	VDC 1000V
Maximum Series Fuse	15A
Operating Temperature	-40 °C ... +85 °C
Maximum snow load (IEC 61215)	5400Pa
Number of bypass diodes	2 or 4

QUALIFICATIONS AND CERTIFICATES

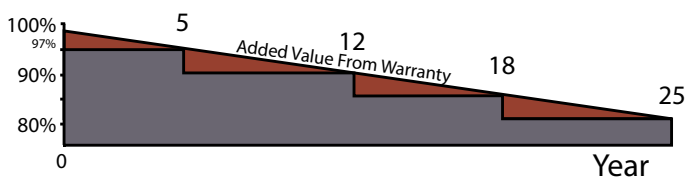


IEC 61215
IEC 61730

I-V Curves at different irradiances P-V Curves at different temperatures



INDUSTRY-LEADING WARRANTY BASED ON NOMINAL POWER



Based of nominal power (Pnom)

25-year transferrable power output warranty:

95% - 5 years; 90% - 12 years; 85% - 18 years; 80% - 25 years

5-year material and workmanship

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