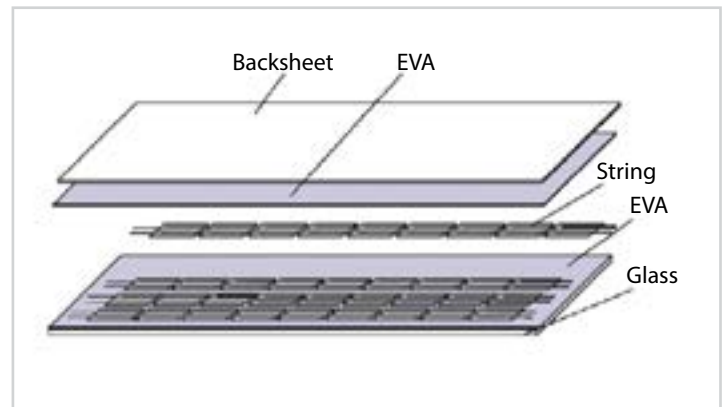


M60/275~285/-D

60 (6×10) 156×156mm

275W
280W
285W

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"

10

YEAR

Manufacturing Warranty

12

YEAR WARRANTY

90% Power Output

25

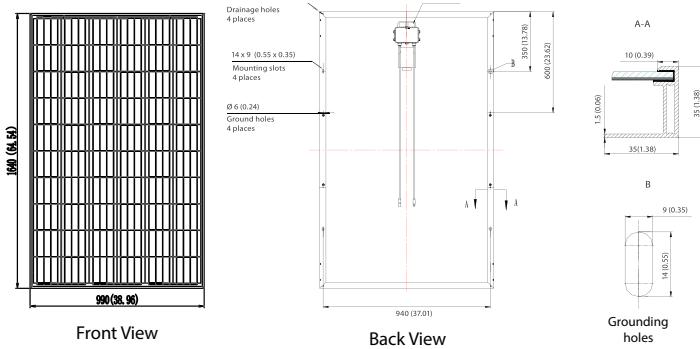
YEAR WARRANTY

80% Power Output

WHY ABI-SOLAR?

- Manufacturing and assembly of PV modules are performed only on East Asian enterprises from **Bloomberg Tier 1** list.
- PV modules are tested and demonstrate high reliability in various climatic conditions and in a wide range of insolation.
- High efficiency and return on investment guaranteed around the world.
- Modules certified by global testing facilities: IEC61215, IEC61730, CE, ROHS, TÜV.
- 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	18.5 kg
Font Glass	3.2 mm tempered low iron glass
Frame	Anodized aluminum
Junction Box	IP67 with 3 bypass diodes
Connector	MC4 compatible
Output cables	TUV, length ±900mm, 4.0mm ²

ELECTRICAL CHARACTERISTICS (STC)

	M60275-D	M60280-D	M60285-D
Maximum Power (Pmax)	275W	280W	285W
Shot Circuit Current (Isc)	9.12A	9.22A	9.33A
Open Circuit Voltage (Voc)	38.7V	38.9V	39.1V
Maximum Power Current (Impp)	8.85A	8.95A	9.05A
Maximum Power Voltage (Vmpp)	31.1V	31.3V	31.5V
Module Efficiency	16.9%	17.21%	17.52%
Power Tolerance		0~+5W	

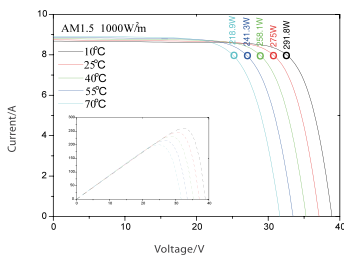
NOCT

	M60275-D	M60280-D	M60285-D
Maximum Power (Pmax)	204W	208W	212W
Shot Circuit Current (Isc)	7.37A	7.45A	7.54A
Open Circuit Voltage (Voc)	35.8V	36.0V	36.2V
Maximum Power Current (Impp)	6.91A	7.01A	7.09A
Maximum Power Voltage (Vmpp)	29.5V	29.7V	29.9V

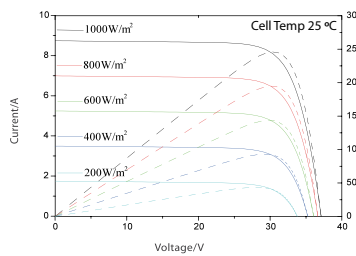
STC irradiance: 1000 W/m² module temperature: +25 °C AM=1,5

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

V-I curves at different temperatures



Power/W Curves at different irradiances



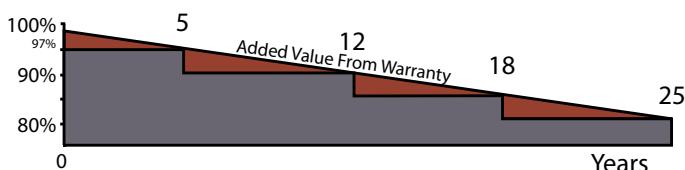
TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45 °C ±2 °C
Temperature Coefficient of Pmax	-0.40% °C
Temperature Coefficient of Voc	-0.32% °C
Temperature Coefficient of Isc	0.05% °C

SYSTEM INTEGRATION PARAMETERS

Maximum System Voltage	VDC 1000V
Maximum Series Fuse	15A
Operating Temperature	-40 °C ... +85 °C
Maximum snow load (IEC 61215)	5400Pa

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

10-year material and workmanship

QUALIFICATIONS AND CERTIFICATES



Head-office

18051 Biscayne Blvd, #1904,
Aventura, FL 33160, USA
+1 305 504 2302

Eastern Europe

ul. Józefa Ignacego Kraszewskiego
36/128, 30-110 Kraków, Poland
+48 012 307 25 43

CIS

9b, Simiyi Sosninykh str., 03148
Kyiv, Ukraine
+380 44 379 2889