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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Aide Solar Energy Technology Co., Ltd.**

**AD270-280M4-Ab**

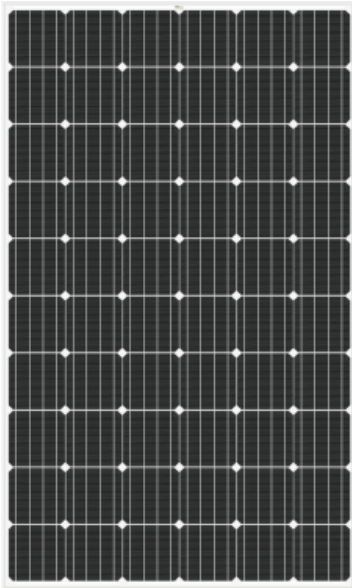
**AD270M4-Ab**

Also available on the web at

[EnergyPal.com/aide-solar-energy-technology-co-ltd-solar-panels/ad270m4-ab](http://EnergyPal.com/aide-solar-energy-technology-co-ltd-solar-panels/ad270m4-ab)



## MONOCRYSTALLINE SOLAR MODULE



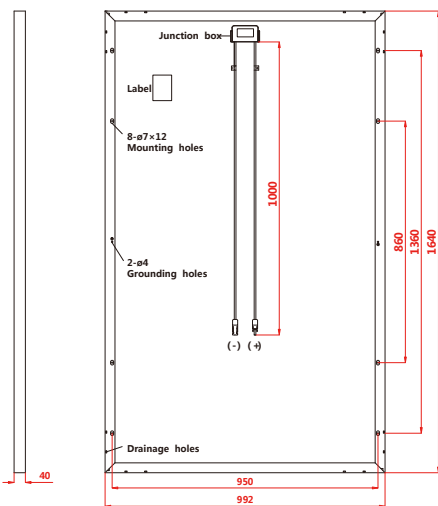
### Features

- Highly efficient energy conversion.
- High strength with wind and snow loads guaranteed up to 5400 Pascal.
- All modules are tested 100% by EL (Electroluminescence) before and after lamination.
- Drainage and other designs prevent deforming and fracturing due to freezing or other forces.
- Power categorization one watt per pallet thus minimizing workload of classification at worksite.
- Positive tolerance for perfect performance.

### Electrical Characteristics

STC	AD270M4-Ab	AD275M4-Ab	AD280M4-Ab
Maximum Power at STC (Pmax)	270W	275W	280W
Optimum Operating Voltage (Vmp)	32.02V	32.20V	32.42V
Optimum Operating Current (Imp)	8.42A	8.55A	8.62A
Open Circuit Voltage (Voc)	38.72V	38.89V	39.76V
Short Circuit Current(Isc)	8.89A	9.04A	9.12A
Module Efficiency	16.60%	16.90%	17.21%
Operating Temperature	-40~85°C	-40~85°C	-40~85°C
Maximum System Voltage	1000V DC	1000V DC	1000V DC
Maximum Series Fuse Rating	15A	15A	15A
Power Tolerance	0W~ +5W	0W~ +5W	0W~ +5W

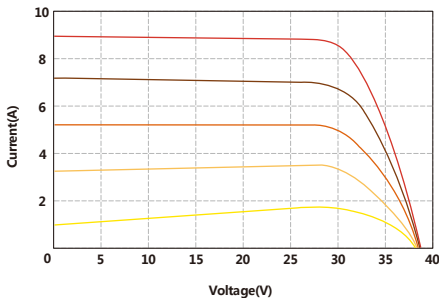
STC: Irradiance of 1000W/m<sup>2</sup>, spectrum AM=1.5, module temperature of 25°C



Side view

Back view

Current-Voltage & Power-Voltage Curve (AD270M4-Ab)



— STC IV Data — 800W/m<sup>2</sup> IV Data — 600W/m<sup>2</sup> IV Data — 400W/m<sup>2</sup> IV Data — 200W/m<sup>2</sup> IV Data

### Mechanical Characteristics

Cell Type	Monocrystalline 156×156mm (6 inches)
Number of Cells	60 (6×10)
Dimensions	1640×992×40mm
Weight	18.5kg
Front Cover	Tempered glass
Frame Material	Anodized aluminium alloy
Standard Packaging (Modules per Pallet)	26pcs

### Temperature Characteristics

Nominal Operating Cell Temperature	45±2°C
Temperature Coefficient of Pmax	-0.42%/°C
Temperature Coefficient of Voc	-0.30%/°C
Temperature Coefficient of Isc	0.06%/°C

\*Specifications included in this datasheet are subject to change without further notification.