



The miracles of science™



DA100-A1

THIN FILM PHOTOVOLTAIC MODULE (TFPV)

The photovoltaic modules of DA series are designed and manufactured using thin-film amorphous silicon process. With their outstanding weak light response and less shadow and temperature sensitivity, they are able to produce much more energy per Watt than traditional crystalline-silicon photovoltaic modules under non-ideal orientations and under real outdoors conditions.

Clean Energy – Du Pont Apollo's thin film photovoltaic modules not only convert sunlight to electricity without resulting any pollution to the environment, but also manufactured by clean and less electricity-consumed process, thus subsequently have better energy payback time.

Product Features

- Extremely low silicon materials used without any toxic byproduct and component lead to ecological advantages
- Robust and non-corroding aluminum frame
- Reliable power generation through high temperature tolerance and low intensity sunlight, even in diffuse sunlight
- Moisture resistance encapsulation
- Aesthetic pleasing product design

Qualifications and Guarantees

- 2 year product guarantee
- 20 year performance guarantee for minimum 80% of power output
- Product certification according to IEC 61646 and IEC 61730



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Product Specifications

Model	DA100-A1
Technology	Amorphous Silicon (Single Junction)

Mechanical characteristics	
Dimensions (mm)	L 1,409 x W 1,110 x T 35
Weight	Approx. 20 Kg

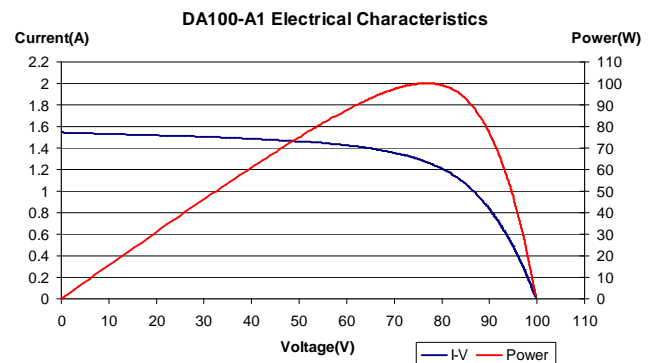
Electrical characteristics	
Maximum power output (Pm)	100 W
Voltage at Pmax point (Vpm)	76.96 V
Current at Pmax point (Ipm)	1.30 A
Open circuit voltage (Voc)	99.29 V
Short circuit current (Isc)	1.55 A

Temperature coefficients	
Coefficient of Pm	- 0.25% /°C
Coefficient of Voc	- 0.30% /°C
Coefficient of Isc	+ 0.09% /°C

Operating conditions	
Operating temperature	-40 ~ +85 °C
Maximum mechanical load	2400 N/m2
Maximum system voltage	750 V

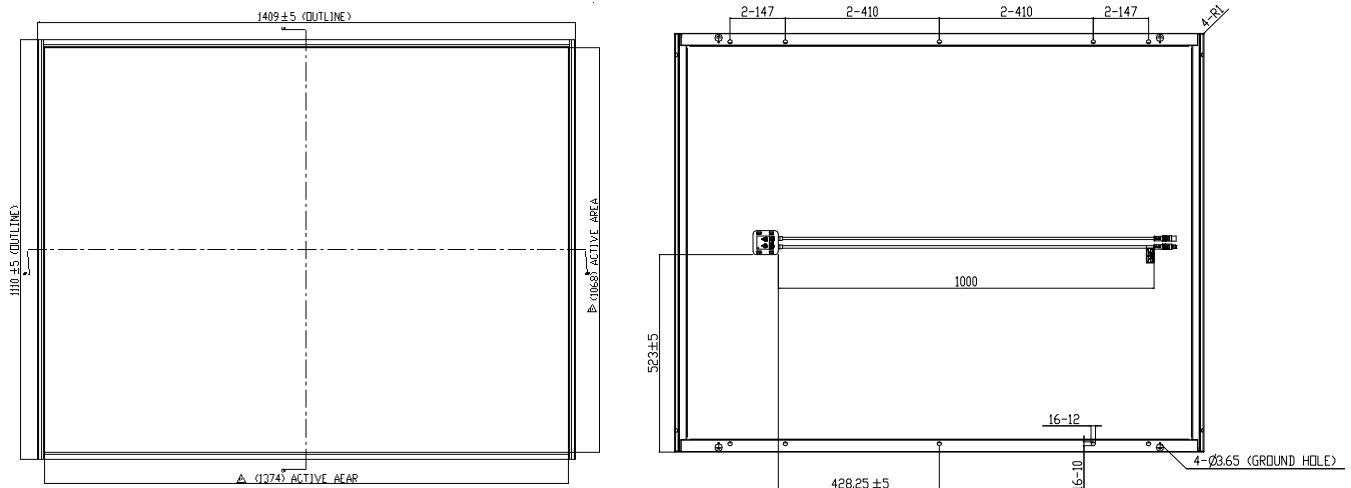


- ✓ High Energy Yields
- ✓ Stable Power Output
- ✓ Robust Encapsulation
- ✓ Easy Mounting



Above data represent stabilized module performance at standard test conditions (STC: 1000W/m2, spectrum AM 1.5, 25°C temperature), The power output is subject to a product tolerance of ± 5%.

Module Outline



All data may be subject to change without prior notice.