Enfinity-235P6
Crystalline Solar Modules



Technology
Enfinity-235P6 crystalline solar module provides excellent value and performance for operation of both DC loads and in an inverter equipped system for AC Loads. The rated output and the efficient design of the module, with their large surface area are ideally suited for high power applications, including telecommunications and grid supplemental systems. Enfinity-235P6 module is designed for easy interconnection to achieve voltage and current configurations for grid-connected systems as well as stand-alone systems.



Module design
High-efficiency 6 inch (156mm) poly-crystalline solar cells form the crux of the Enfinity-235P6 module. These 156 mm square cells offer a homogeneous appearance, optimal use of the area and are known for high energy yields. Due to its construction of Glass/ EVA/TPT, the module is light in weight in addition to protecting the module/cells against harsh environmental conditions. A torsion resistant module frame made of electrophoresis aluminum guarantees high mechanical strength, making the module resistant to extreme wind, hail and snow.

Features
1. Module assembled using high quality and performance components sourced from leading international suppliers.
2. State-of-art, automated manufacturing facilities guarantee consistent high quality & electrical performance.
3. Narrow power tolerance range of ± 3% ensures the module maximum rated power output.
4. Certified as per international standards (IEC 61215:2005, IEC 61730-1/2:2007 and safety class II for 1000VDC) for high performance and safety.
5. Robust and lightweight anodized aluminum frames with lock pin for better strength, quick and easy installation.

Warranty
Manufacturing:	10 years
Power production:	90% = 10 years
	80% = 25 years

Enfinity-235P6 module type

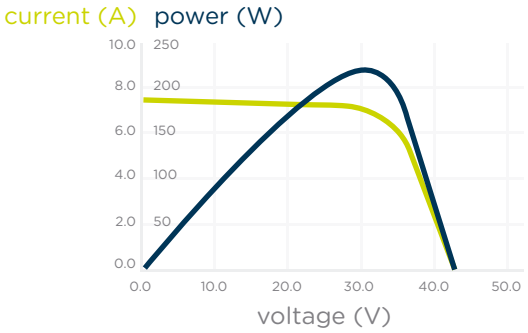
Electrical characteristics		
Max-power	Pm(W)	235
Power tolerance	(%)	± 3
Max-power Voltage	Vm(V)	35.5
Max-power current Im	Im(A)	7.04
Open-circuit voltage	Voc(V)	43.21
Short-circuit current	Isc(A)	7.63
Max-system voltage	(VDC)	1000
Cell efficiency	ηc (%)	16.1
Module efficiency	ηm (%)	14
No., type & arrangement of cells		60 pcs poly-crystalline silicon (6x10)
Cell size	(mm)	156x156
No. of bypass diodes	(pcs.)	6
Pm temperature coefficient	(%/°C)	-0.51
Isc temperature coefficient	(%/°C)	0.035
Voc temperature coefficient	(%/°C)	-0.36
NOCT - Nominal Operating Cell Temperature	(°C)	46 ± 2

Mechanical characteristics	
Cable type, diameter and length	4 mm², TÜV certified, 1250 mm
Type of connector	MC4 compatible
Dimension L x W x H (mm)	1650 x 990 x 50
Weight	23 kg
No. of draining holes in frame	4
Glass, type and thickness	High transmission, low iron, tempered glass 0.12"(3.2mm)

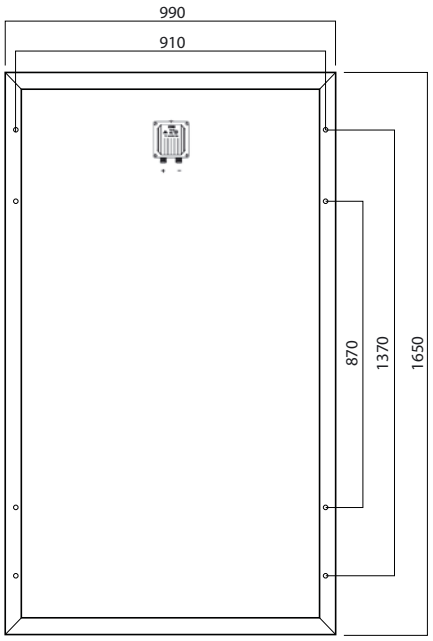
Absolute ratings		
Dielectric Insulation Voltage	(VDC)	3000 max.
Operating Temperature	(°C)	-40 ~ +90
Storage Temperature	(°C)	-40 ~ +90

Strengths

- Tolerance ± 3%
- Plug & Play Connectors
- High transmission, low iron tempered glass
- Can bear static loads up to 5400Pa



Current / voltage dependence on Irradiance and module temperature. This is only indicative showing effect of temperature and intensity on power.



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