

# SOLAIRE DIRECT TECHNOLOGIES : SD610

## Mechanical Characteristics

Length (mm)	1660
Width (mm)	990
Height (mm)	45
Weight (Kg)	19
Junction Box	1 x Tyco junction Box with 3 Bypass diodes
Cables	Solar Cable, Length 1000mm, 4 mm <sup>2</sup> thick Assembled
Front Substrate	HiT SM, ARC White Glass glass 3.2mm thickness
Cells	60 polycrystalline cells (156 x 156 mm)
Encapsulation Material	EVA - Ethylene Viynl Acetate
Back Substrate	Composite Sheet Tedlar or APA
Frame	45 mm Aluminum profile - Natural or Black Anodized
Unframed Dimensions	1652 x 982 x 5 mm (LxWxH) (Tol. +/- 2mm)



## Electrical Characteristics

Power Class	235	230	225	220	215	210
Power Tolerance	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%
Min Power (W)	227.95	223.1	218.25	213.4	208.55	203.7
Voltage at Max Power (Vmp)	29.4	29.3	28.9	28.8	28.6	28.3
Current at Max Power (Imp)	8.04	7.95	7.82	7.75	7.6	7.49
Open circuit Voltage (Voc)	36.9	36.7	36.6	36.4	36.3	36.1
Short Circuit Voltage (Isc)	8.65	8.55	8.4	8.3	8.2	8.1
Maximum System Voltage	1000	1000	1000	1000	1000	1000

Voltage temperature correction factor (Open Circuit)	-0.35%/K
Current Temperature correction factor (Short Circuit)	0.05%/K
Power Temperature correction Factor	-0.44 %/K
NOCT	45°C
(STC) Standard testing conditions :	1000 W/m <sup>2</sup> , AM 1.5, 25°C

## Use Conditions

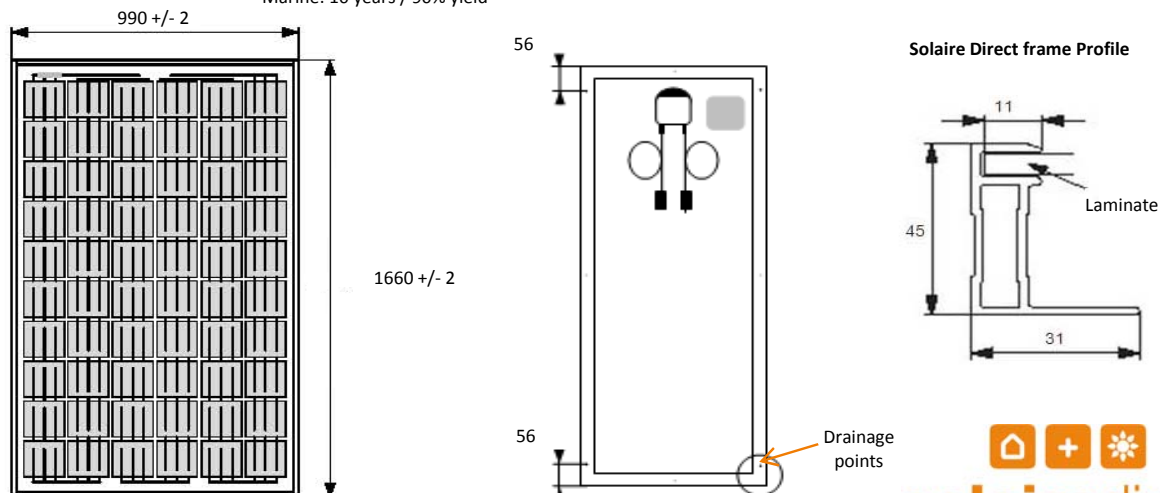
Temperature Range	-40 °C to + 85°C
Hail Test	Limited to a diameter of 28mm at an impact speed of 86 km/h
Test Load	Certified up to 5400 Pa according to IEC 61215 Ed. 2

## Certification

IEC 61215:2005 Ed. 2	Certified
EN6170 Class 1 & Class 2	Certified

## Warranty

Product	3 years
Power	Terrestrial: 25 years 80% yield Marine: 10 years / 90% yield



Version 05/2009. Can be modified without notice. Average Electrical characteristics for Power class  
Power tolerance related to power class before <<LID>> / Pictures and Drawings Are not contractual