


# OMNIPOWER SOLAR PANEL

**MODEL : OMNI-210P / 215P / 220P / 225P / 230P / 235P  
/ 240P / 245P / 250P**

<b>MECHANICAL CHARACTERISTICS</b>	
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, 4mm <sup>2</sup> thick assembled
Front Substrate	HiT SM, ARC White Glass 3.2mm thickness
Cells	60 Polycrystalline cells (156 x 156mm)
Encapsulation Material	EVA – Ethylene Vinyl Acetate
Back Substrate	Composite Sheet Tedlar or APA
Frame	45mm Aluminium profile – natural or black anodized
Unframed Dimensions	L 1652 x W 982 x H 5mm (Tol. +/- 2mm)



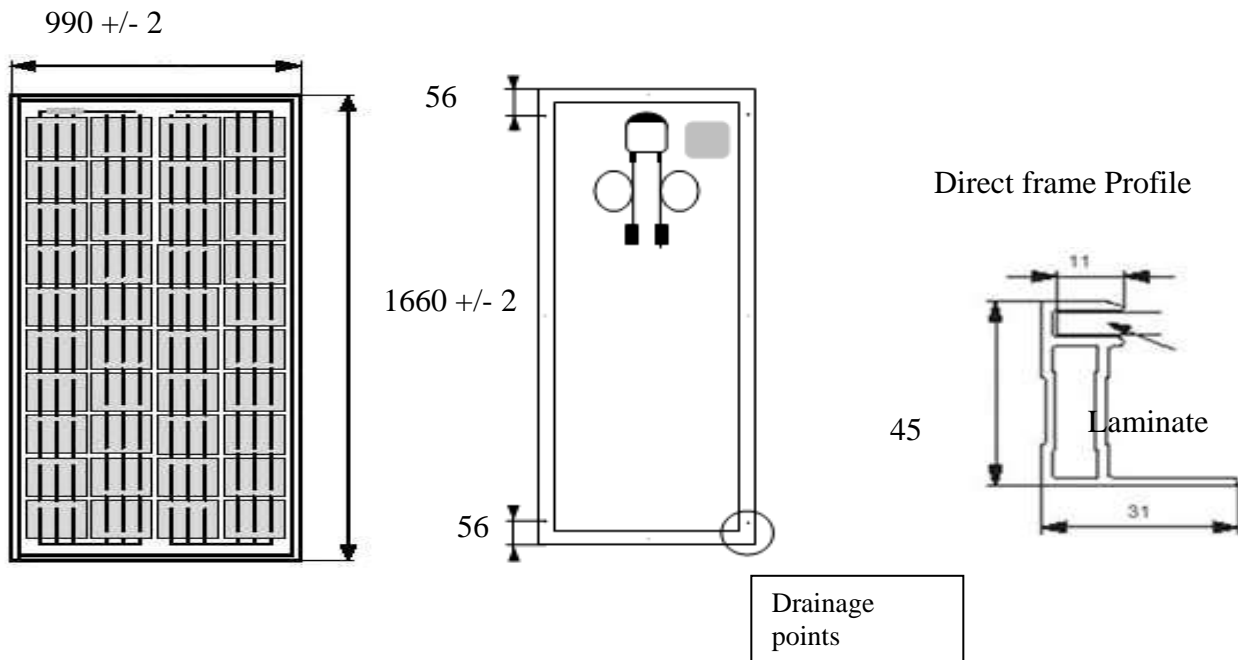
<b>ELECTRICAL CHARACTERISTICS</b>										
Power Class	Wp	210	215	220	225	230	235	240	245	250
Power Tolerance		+3%	+3%	+3%	+3%	+3%	+3%	+2%	+2%	+2%
Min. Power	Wp	210	215	220	225	230	235	235.2	240.1	245
Voltage at Max. Power (Vmp)	V	28.3	28.6	28.8	28.9	29.3	29.4	29.7	29.95	30.2
Current at Max. Power (Imp)	A	7.49	7.6	7.75	7.82	7.95	8.04	8.16	8.27	8.38
Open circuit Voltage (Voc)	V	36.1	36.3	36.4	36.6	36.7	36.9	37.03	37.18	37.33
Short Circuit Current (Isc)	A	8.1	8.2	8.3	8.4	8.55	8.65	8.78	8.91	9.03
Maximum System Voltage	V	1000	1000	1000	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								



<b>USE CONDITIONS</b>	
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 internally up to 5400 Pa according to IEC 61215 Ed. 2

<b>CERTIFICATION</b>	
IEC 61215:2005 Ed.2	Certified
EN6170 Class 1 & Class 2	Certified

<b>WARRANTY</b>	
Product	3 years
Power Performance	Terrestrial : 25 years 80% yield
	Marine : 10 years 90% yield



Version 05/2009. Average Electrical characteristics for Power Class
Power tolerance related to power class before <<LID>> Pictures and Drawings are not contractual

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