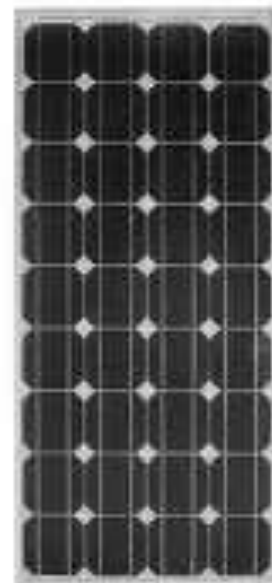


# OMNIPOWER SOLAR PANEL

MODEL : OMNI-75M / 80M / 85M

MECHANICAL CHARACTERISTICS	
Length (mm)	1210
Width (mm)	550
Height (mm)	36
Weight (kg)	8
Junction Box	1 x Tyco junction box with 2 diodes
Cables	OPTIONAL : Solar cable (1000 x 4mm <sup>2</sup> ) assembled with Tyco connectors
Front Substrate	Low iron tempered white glass 3.2mm thickness
Cells	36 Polycrystalline cells (125 x 125mm)
Encapsulation Material	EVA – Ethylene Vinyl Acetate
Back Substrate	Composite sheet Tedlar or APA
Frame	36mm Aluminium profile natural



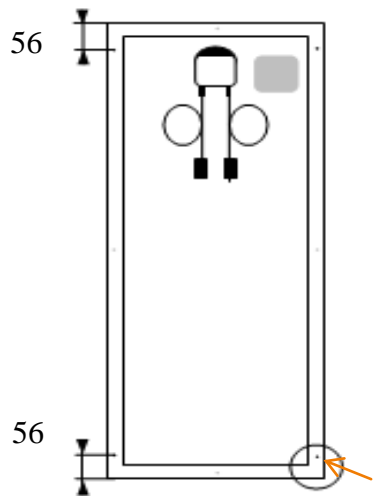
ELECTRICAL CHARACTERISTICS				
Power Class	Wp	75	80	85
Power Tolerance		+ 3/-2W	+ 3/-2W	+ 3/-2W
Min. Power	Wp	73	78	83
Voltage at Max. Power (Vmp)	V	17.2	17.2	17.2
Current at Max. Power (Imp)	A	4.36	4.65	4.94
Open circuit Voltage (Voc)	V	21.6	21.6	21.6
Short Circuit Current (Isc)	A	4.78	5.28	5.42
Maximum System Voltage	V	1000	1000	1000
Voltage temp. correction factor (Open Circuit)		- 0.35% K		
Current temp. correction factor (Short Circuit)		0.05% K		
Power temp. correction factor		- 0.44% K		
NOCT		45°C		
(STC) Standard testing conditions		1000 W/m <sup>2</sup> , AM 1.5, 25°C		



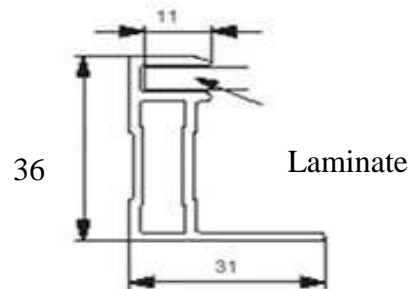
<b>USE CONDITIONS</b>	
Temperature range	-40°C to + 85°C
Hail Test	Limited to a diameter of 28mm at an impact speed of 86 km/h
Test Load	Certified internally up to 5400 Pa according to IEC 61215 Ed. 2

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

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



Direct frame Profile



Tolerance	+/-2
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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