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Solar

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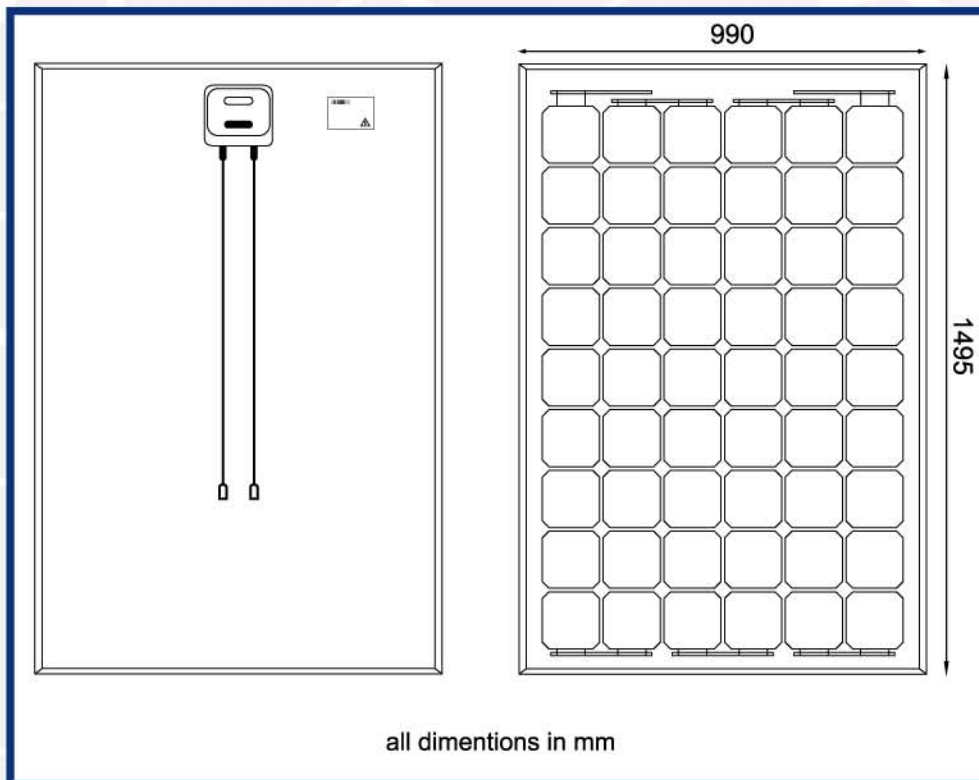
## 215 Watt Maximum Power | MONO - CRYSTALLINE SOLAR PANEL

### ■ PHILADELPHIA SOLAR MODULES

Philadelphia mono-crystalline solar modules in maximum power of 215Wp are produced with a state-of-the-art robotic production line. These modules are suitable for use in most electrical power applications and have excellent durability to prevailing weather conditions.

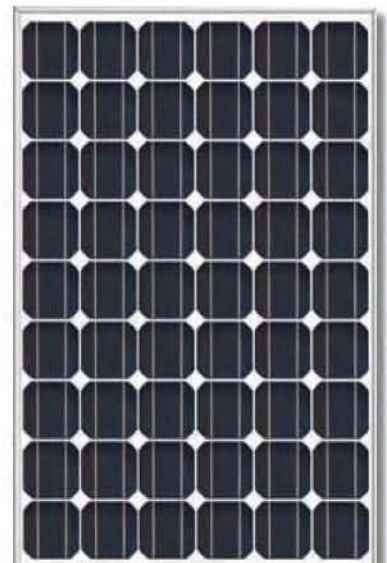
### ■ FEATURES

- High-efficiency 6" solar cells ensure high performance of the solar module and create more power under the same conditions.
- Bypass diodes minimize the power drop caused by shade.
- High transparency low-iron tempered glass, EVA laminate and weatherproof back sheet, plus heavy duty anodized aluminum frame.
- Output terminals have waterproof connectors.
- All components have TUV certification.
- Produced under systematic quality control covering all processes and factors.



M54 - 215

(215)W<sub>p</sub>



- High output performance.
- Long-term reliability.
- Sufficient reverse current.
- Good resistance to mechanical loads.



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ELECTRICAL DATA		
Production code		M54 - 215
Nominal power ±5% [W <sub>p</sub> ]	P <sub>nom</sub>	215
Voltage at nominal power [V]	U <sub>mpp</sub>	27.7
Current at nominal power [A]	I <sub>mpp</sub>	7.8
Open-circuit voltage [V]	U <sub>oc</sub>	33.3
Short-circuit current [A]	I <sub>sc</sub>	8.35
Voltage temperature coefficient	(mV/cell/°C)	-2.30
Current temperature coefficient	(mA/cell/°C)	2.25
Module efficiency [%]	η	14.5
MODULE COMPONENTS		
Solar cells per module	54 (6 x 9 in series)	
Cell type	Monocrystalline silicon,156×156 mm <sup>2</sup> , Pseudo square.	
Connection	Junction box IP65 with 3 bypass diods, solar cable (length: 0.8m, cross section: 4mm <sup>2</sup> ) with MC4 interconnection.	
Front surface	Low iron solar glass 3.2 mm	
Frame material	Anodized aluminum	
DIMENSIONS AND WEIGHT		
Dimensions [mm]	(1495 x 990 x 45)	
Weight [kg]	17.5 ± 3%	
LIMITS		
System voltage [V <sub>DC</sub> ]	1000	
Maximum reverse current I <sub>RC</sub> [A]	12	
Operating module temperature [°C]	-40 .... +85	
Fire classification	C	
WARRANTY		
Power output	10 Years 90% of minimum power output	
	25 Years 80% of minimum power output	

**CAUTION!** Please read the operation instructions carefully before using the products.

This brochure may be changed without notice during the continuous improvement of this product.