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BIG POWER, SMALL FOOTPRINT

FEATURES

- High-power module (188W) using 156.5mm square single crystal silicon solar cells with 14.24% module conversion efficiency
- Photovoltaic module with bypass diode minimises the power drop caused by shade
- Textured cell surface to reduce the reflection of sunlight and BSF (Back Surface Field) structure to improve cell conversion efficiency: 15.99%
- White tempered glass, EVA resin and a weatherproof film, plus aluminum frame for extended outdoor use
- Output terminal: Lead wire with waterproof connector
- Certifications: IEC 61215 and IEC 61730
- SHARP modules are manufactured in ISO 9001 certified factories

SINGLE CRYSTAL SILICON PHOTOVOLTAIC MODULE WITH 188W MAXIMUM POWER

This single crystal 188Watt module features 15.99% encapsulated cell efficiency and 14.24% module efficiency. Using breakthrough technology perfected in Sharp's space cell program, the **NU-A188EY** module allows for maximum usable power per square metre of solar array.

A safe, clean, reliable source of energy, Sharp's NU-A188EY photovoltaic module is designed for large electrical power requirements. Based on the technology of crystal silicon solar cells developed for 50 years, this module has superb durability to withstand rigorous operating conditions and is suitable for grid connected systems.

Common applications for the Sharp NU-A188EY include residences, office buildings, solar power stations and solar suburbs. As the world's leading manufacturer of photovoltaic modules, Sharp produces an extensive line of high power modules for every electrical power requirement.



ELECTRICAL	CHARACTERISTICS
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Cell	48 Monocrystalline (156.5mm) ² Sharp silicon solar cells	
No. of Cells and Connections	48 in series	
Open Circuit Voltage (Voc)	29.6V	
Maximum Power Voltage (Vpm)	24V	
Short Circuit Current (Isc)	8.60A	
Maximum Power Current (Ipm)	7.84A	
Maximum Power (Pm) ¹	Min. 179W Typical 188W	
Encapsulated Solar Cell Efficiency (ηc) 15.99%		
Module Efficiency (ղm)	14.24%	
Maximum System Voltage	DC 800V	
Series Fuse Rating	15A	
Type of Output Terminal	Lead Wire with MC Connector	

Specifications are subject to change without notice ¹ (STC) Standard Test Conditions: 25°C, 1 kW/m², AM 1.5





MECHANICAL	CHARACTE	RISTICS		
Dimensions	1328 x 994 x 57.5mm			
Weight	16.5kg		-)	
TEMPERATUR	RE COEFF	ICIENT	5	
Temp. Coefficient of Pmax	-0.485	% / °C		
Temp. Coefficient of Voc	-0.104	V / °C	_	
Temp. Coefficient of Isc	0.053	% / °C	_/	
ABSOLUTE MAXIMUM RATINGS				
Parameters	Rating	Unit		
Operating Temperature	-40 to +90	°C	_	
Storage Temperature	-40 to +90	°C		
Dielectric Voltage Withstood	5,200 max.	V-DC	_ /	
			/	



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In the absence of confirmation by device specifications sheets, Sharp takes no responsibility for any defects that may occur in equipment using any Sharp devices shown in catalogues, data books, etc. Contact Sharp in order to obtain the latest device specification sheets before using any Sharp device.



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