**Power Tech International Group** 

# **SOLAR MODUL**

# SOLAR MODULE SHARP 80 WATTS NE-80E2E

MULTI-CRYSTALLINE SILICON PHOTOVOLTAIC MODULE WITH 80W MAXIMUM POWER

#### **GENERAL DESCRIPTION**

SHARP NE-80E2E photovoltaic module is designed for large electrical power requirements. Based on the technology of crystal silicon solar cells cultivated for over 35 years, this module has superb durability to withstand rigorous operating conditions and is suitable for grid connected systems.

#### **FEATURES**

- High-power module (80W) using 125mm square multi crystal silicon solar cells with 12.6% module conversion efficiency.
- Photovoltaic module with bypass diode minimizes the power drop caused by shade. Anti Reflection coating and BSF (Back Surface Field) structure to improve cell conversion efficiency: 14%.
- Using white tempered glass, EVA resin, and a weatherproof film along with an aluminum frame for extended outdoor use.
- DC 12V system5 Output terminal: Lead wire with waterproof connector

#### APPLICATION

- Grid connected residential systems .
- Office buildings
- Solar power stations
- Solar villages
- Villas, mountain cottages
- Pumps
- SPECIFICATION

#### Cells No. of cells and connections Application Maximum system voltage Series fuse rating power Dimensions (H) x (W) x (D) Weight

Lig	hting	equipment
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- Traffic signs Radio relay stations
- Beacons
- Telemeter systems
- Telecommunication systems

Multi-crystalline silicon solar cells,125mm square 36 in series DC 12 V system DC 600V 10A Maximum 76.0 W (Min) 1200 x 530 x 35mm 8.5kg

## ABSOLUTE MAXIMUM RATINGS

Parameter	Rating	Unit
Operating Temperature	-40 to +90	°C
Storage Temperature	-40 to +90	°C
Dielectric Isolation Voltage	2200	VDC max.

#### **OUTPUT TERMINAL**

Type of output terminal

Load wire with connecter

## ELECTRO-OPTICAL CHARACTERISTICS

MODEL	NE-80E2E				
Parameters	Symbol	Min.	Туре.	Unit	Condition
Open circuit voltage	Voc		21.3	V	
Maximum power voltage	Vmp		17.1	V	Irradiance: 1000 W/m2
Short circuit current	Isc		5.31	А	madiance. 1000 w/mz
Maximum power current	Imp		4.67	А	
Maximum power	mp	76.0	80.0	W	Modules temperature:
Encapsulated solar cell efficiency	ης		14.0	%	20 0
Module efficiency	nm		12.6	%	



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