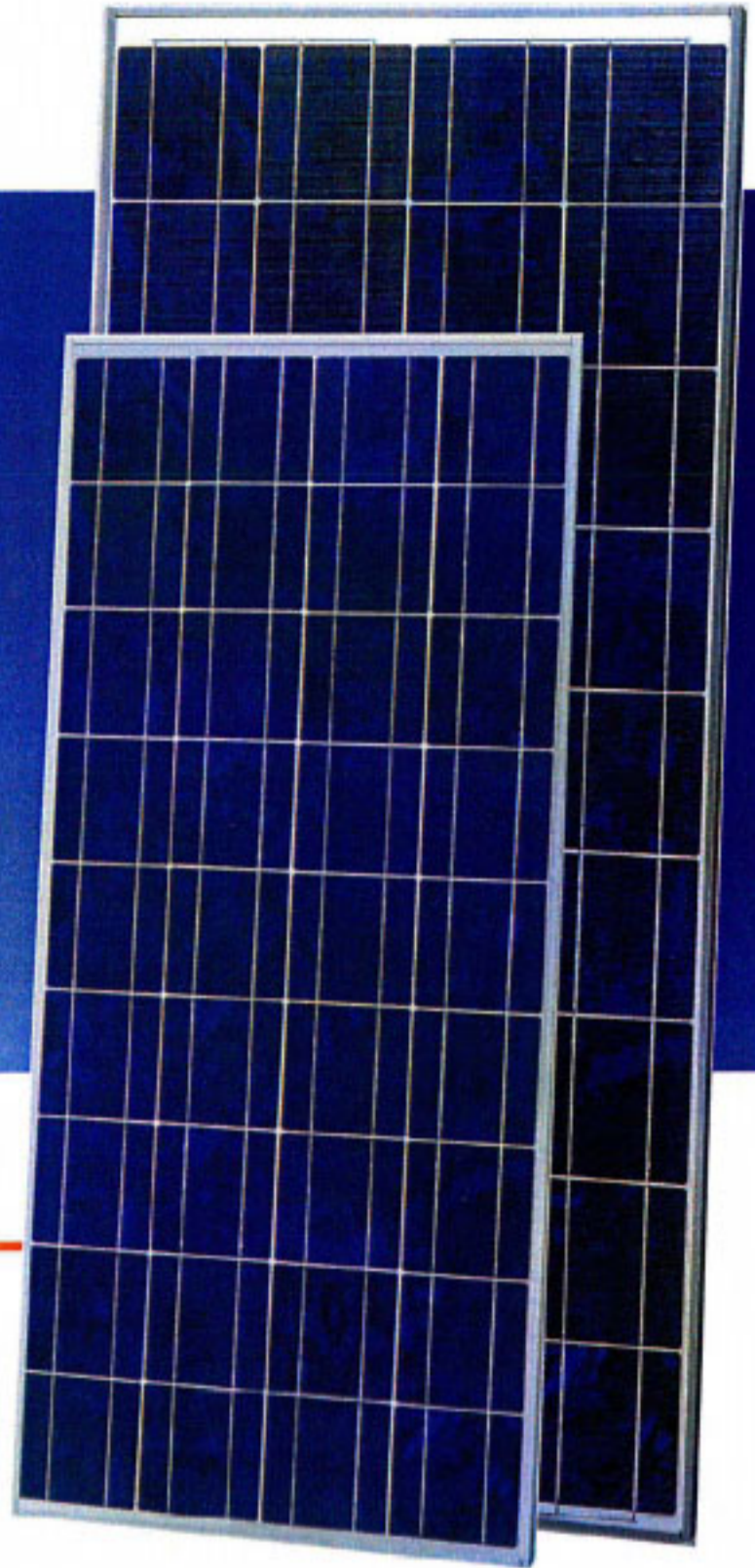


# SHARP



## **ND-130T1J/NE-080T1J**

Poly-Crystalline Silicon Photovoltaic Module  
with 130W & 80W Maximum Power

### **GENERAL DESCRIPTION**

SHARP's ND-130T1J and NE-080T1J photovoltaic module is designed for large electrical power requirements. Based on the technology of crystal silicon solar cells cultivated for over 40 years, this module has superb durability to withstand rigorous operating conditions and is suitable for grid connected systems.

### **FEATURES**

- 1** 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.
- 2** Using white tempered glass, EVA resin, and a weatherproof film along with an aluminum frame for extended outdoor use.
- 3** DC 12V system
- 4** Output terminal: Lead wire with waterproof connector
- 5** Qualified IEC 61215



## SPECIFICATIONS

Cell	NE-080T1J	ND-130T1J
	Poly-crystalline silicon solar cells	
	126.0 mm square	156.5 mm square
No. of cells and connections	36 in series	
Application	DC 12V system	
Maximum system voltage	DC 600V	
Module conversion efficiency	12.10%	12.92%
Series fuse rating	10A	15A
Maximum power	80W	130W
Dimensions	1214x545x35mm	1491x671x46mm
Weight	14.5kg	14.5kg

## ABSOLUTE MAXIMUM RATINGS

Parameters	Rating	
	NE-080T1J	ND-130T1J
Operating temperature	-40 to +90	
Storage temperature	-40 to +90	

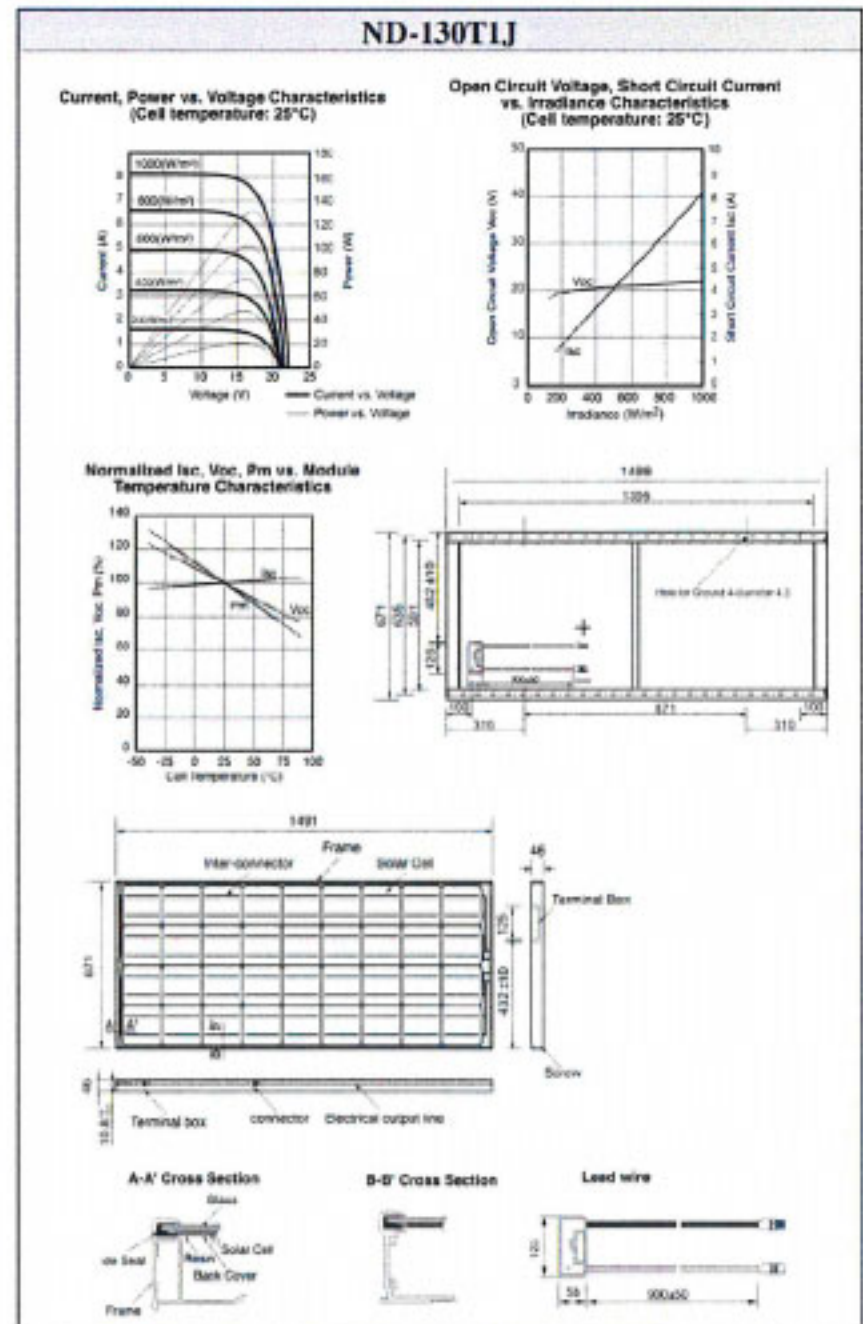
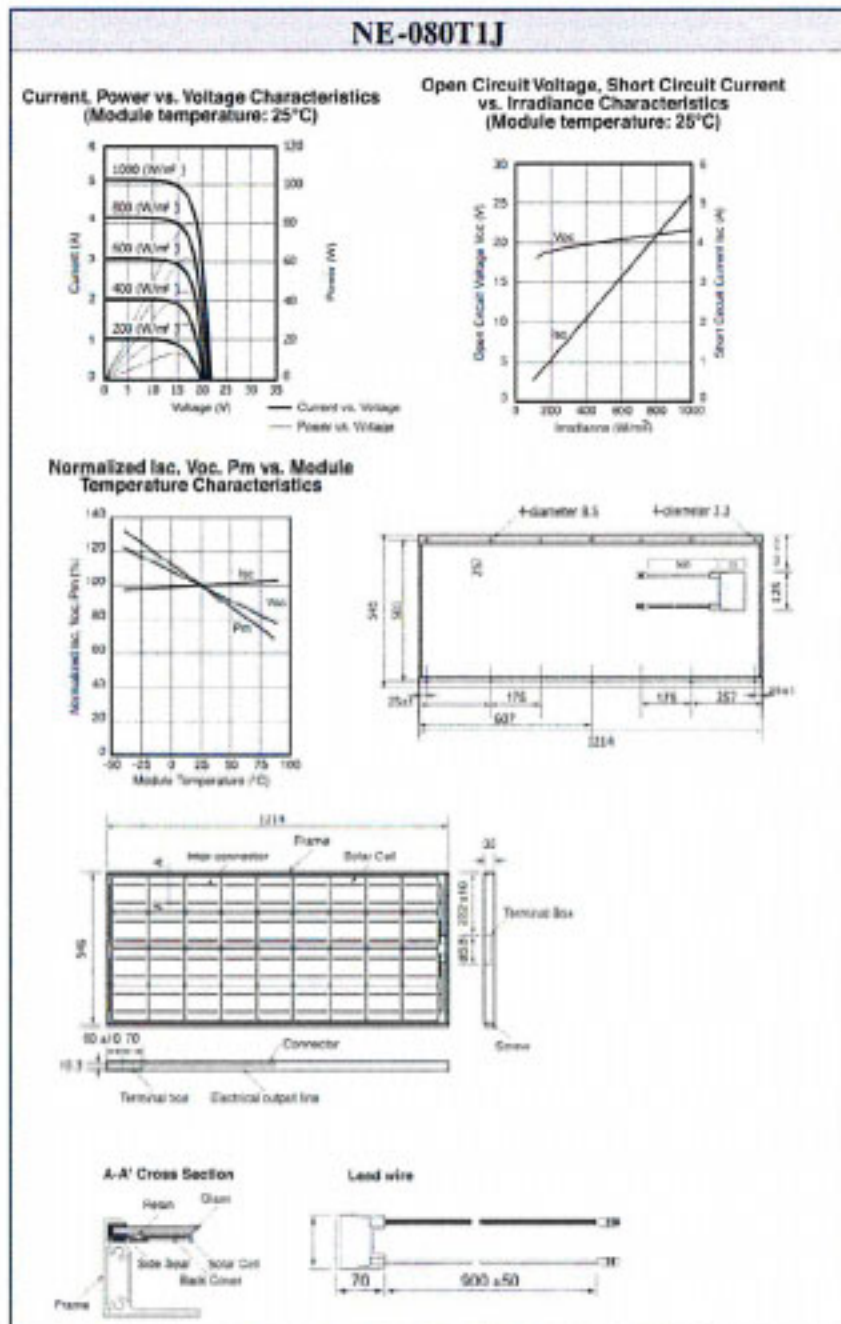
## OUTPUT TERMINAL

Type of output terminal	NE-080T1J	ND-130T1J
	Lead wire with connector	

## ELECTRO-OPTICAL CHARACTERISTICS

Model	Parameters	Symbol	NE-080T1J		ND-130T1J		Unit	Condition
			Min.	Typ.	Min.	Typ.		
Open circuit voltage	Voc	—	—	21.6	—	22.0	V	Irradiance: 1000 W/m <sup>2</sup>
Maximum power voltage	Vpm	—	—	17.3	—	17.4	V	
Short circuit current	Isc	—	—	5.15	—	8.09	A	
Maximum power current	Ipm	—	—	4.63	—	7.48	A	Module temperature: 25°C
Maximum power	Pm	76.0	80	123.5	130	W		
Module efficiency	$\eta_m$	—	12.1	—	12.99	%		

## CHARACTERISTICS & OUTLINE DIMENSIONS



# SHARP

