SHARP

NU series J5 (60 cells) 250 | 245 | 240 W

Monocrystalline silicon photovoltaic modules



Say yes to solar power! Because it protects the climate.

Innovations from a photovoltaic pioneer

As a solar specialist with more than 50 years of experience in photovoltaics (PV), Sharp makes significant contributions to groundbreaking progress in solar technology.

Sharp photovoltaic modules in the NU series are designed for applications with high power requirements. These quality monocrystalline modules produce a continuous, reliable yield, even under demanding operational conditions.



All Sharp NU series modules offer system integration which is optimal both technically and economically, and are suitable for installations in on and off-grid PV systems.

Certificates and approvals

All modules are tested and certified according to

- IEC/EN 61215 and IEC/EN 61730, Application class A
- Safety class II
- CE

Sharp is certified based on

ISO 9001:2008 and ISO 14001:2004

Product features

- High-performance photovoltaic modules made of monocrystalline (156.5 mm)² silicon solar cells with module efficiencies of up to 15.2%.
- Anti-reflex coating to increase light absorption.
- Production controlled positive power tolerance from 0 to +5%. Only modules will be delivered that have the specified power or more for high energy yield.
- Delivery of modules in 5-watt intervals.
- Improved temperature coefficient to reduce power losses at higher temperatures.
- High power performance even at lower irradiations.

Quality from Sharp

Benchmarks are set by the quality standards of Sharp Solar. Continual checks guarantee a consistently high level of quality. Every module undergoes visual, mechanical, and electrical inspection. This is recognisable by means of the original Sharp label, the serial number, and the Sharp guarantee:

- 5-year product guarantee
- 10-year performance guarantee on a power output of 90%
- 25-year performance guarantee on a power output of 80%

The detailed guarantee conditions and additional information can be found at **www.sharp.eu/solar.**

Electrical data (at STC)

		NU-R250J5	NU-R245J5	NU-R240J5	
Maximum power	P _{max}	250	245	240	Wp
Open-circuit voltage	V _{oc}	37.9	37.5	37.3	V
Short-circuit current	I _{sc}	8.76	8.73	8.63	А
Voltage at point of maximum power	V _{mpp}	31.0	30.5	30.2	۷
Current at point of maximum power	I _{mpp}	8.07	8.04	7.95	А
Module efficiency	η _m	15.2	14.9	14.6	%

STC = Standard Test Conditions: irradiance 1,000 W/m², AM 1.5, cell temperature 25 °C. Rated electrical characteristics are within ±10% of the indicated values of I_{SC}, V_{OC} and 0 to +5% of P_{max} (power measurement tolerance ±3%).

Electrical data (at NOCT)

		NU-R250J5	NU-R245J5	NU-R240J5		
Maximum power	P _{max}	179.9	176.3	172.7	Wp	
Open-circuit voltage	V _{oc}	37.1	36.7	36.5	V	
Short-circuit current	I _{sc}	7.07	7.05	6.96	А	
Voltage at point of maximum power	V _{mpp}	27.9	27.4	27.1	V	
Nominal Operating Cell Temperature	NOCT	47.5	47.5	47.5	°C	

NOCT: Module operating temperature at 800 W/m² irradiance, air temperature of 20 °C, wind speed of 1 m/s.

Limit values		
Maximum system voltage	1,000 V DC	L
Over-current protection	15 A	٧
Temperature range	-40 to +90 °C	C
Maximum mechanical load	2,400 N/m ²	۷

Temperature coefficient Mechanical data 1,652 mm (+/-3.0 mm) -0.463 % / °C ength P_{max} Nidth 994 mm (+/-2.0 mm) -0.330 % / °C Voc Depth 46 mm (+/-0.8 mm) +0.030 % / °C I_{SC} Neight 19 kg

Characteristic curves NU-R245J5



Rear view



General uata			
Cells	monocrystalline, 156.5 mm \times 156.5 mm, 60 cells in series	Sharp Solar qua	
Front glass	low iron tempered glass, 3 mm	value of your pr	
Frame	anodized aluminium alloy, silver	your modules w	
Connection box	PPE/PPO resin, IP65 rating, 58 \times 125 \times 15 mm, 3 bypass diodes	we can send you	
Cable	4 mm², length 900 mm	www.brandac	
Connector	SMK (MC4 compatible), Type CCT9901-2361F/2451F (Catalogue no. P51-7H/R51-7), IP67 rating		
To extend the module connection leads, only use SMK connector from the same series or MultiContactAG MC4 connector (PV-KST04/PV-KBT04)			

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rantees the safety, quality and oduct over many years – the k you to do is to register ith the serial number, so that u the guarantee certificate. odules quickly and easily at ddedvalue.net.

Sharp Energy Solution Europe a division of Sharp Electronics (Europe) GmbH Sonninstrasse 3, 20097 Hamburg, Germany Tel: +49(0)40/2376-0 • Fax: +49(0)40/2376-2193 www.sharp.eu/solar

Local responsibility:

Austria SolarInfo.at@sharp.eu Benelux olarInfo.seb@sharp.eu Central & Eastern Europe SolarInfo.scee@sharp.eu

Denmark SolarInfo.dk@sharp.eu France SolarInfo.fr@sharp.eu Germany SolarInfo.de@sharp.eu Scandinavia SolarInfo.sen@ sharp.eu Spain & Portugal larInfo es@ arp.eu Switzerland larInfo.ch@sharp.eu United Kingdom SolarInfo.uk sharp.eu

