

# LUXPOWER

## LNSE 230M-245M

### MONOCRYSTALLINE SOLAR MODULE

Premium modules of LUXPOWER series with varied power ratings are suitable for all types of systems, from small-scale private roof systems to large-scale solar power farms.

Insured by 



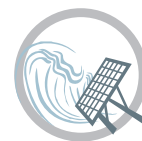
ISO 9001:2008 & ISO 14001  
management systems



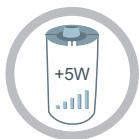
Wind load up to 3800 Pa / Snow  
load up to 5400 Pa



IEC 61215 & IEC 61730  
standard quality



Salt mist and ammonia corrosion  
tests passed



0-5 W positive power sorting



25-year performance warranty /  
10-year product warranty



Stable performance under weak  
light conditions



Reliable choice for secure solar yield



**LUXEN**  
Quality Maker

## Electrical Characteristics

STC	LNSE-230M	LNSE-235M	LNSE-240M	LNSE-245M
Optimum Operating Voltage (Vmp)	30.0 V	30.1V	30.2V	30.3V
Optimum Operating Current (Imp)	7.67A	7.82A	7.95A	8.09A
Open Circuit Voltage (Voc)	37.1V	37.2V	37.3V	37.4V
Short Circuit Current (Isc)	8.16A	8.34A	8.46A	8.61A
Maximum Power at STC (Pmax)	230W	235W	240W	245W
Cell Efficiency	16.28%	16.63%	16.99%	17.34%
Operating Module Temperature	-40 °C to +85 °C			
Maximum System Voltage	1000 V DC (IEC) / 600V DC (UL)			
Maximum Series Fuse Rating	15 A			
Power Tolerance	0/+5W			

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 °C, AM=1.5;

Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

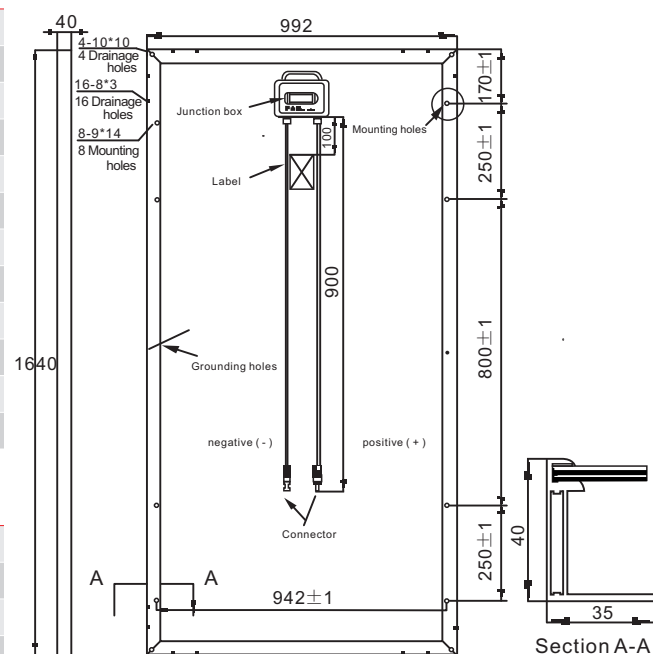
NOCT	LNSE-230M	LNSE-235M	LNSE-240M	LNSE-245M
Maximum Power at NOCT (Pmax)	166W	170W	173W	177W
Optimum Operating Voltage (Vmp)	27.4V	27.5V	27.5V	27.6V
Optimum Operating Current (Imp)	6.06A	6.18A	6.29A	6.40A
Open Circuit Voltage (Voc)	34.0V	34.1V	34.2V	34.3V
Short Circuit Current (Isc)	6.60A	6.75A	6.85A	6.97A

NOCT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s;

Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

## Mechanical Characteristics

Solar Cell	Mono-crystalline silicon 156 × 156 mm (6 inches)
No. of Cells	60 (6 × 10)
Dimensions	1640 × 992 × 40mm
Weight	20.0 kgs
Front	Glass 3.2 mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67 rated (3 bypass diodes)
Output Cables	TÜV (2Pfg 1169:2007), UL 4703, 4.0 mm <sup>2</sup> , symmetrical length (-) 900mm and (+) 900mm
Connectors	MC 4 compatible
Mechanical load test	5400Pa
Resistance	277g steel ball falls down from 1m height and 60m/s wind



## Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.44 %/°C
Temperature Coefficient of Voc	-0.33 %/°C
Temperature Coefficient of Isc	0.055 %/°C

## Packing Configuration

Container	20' GP	40' GP
Pieces per pallet	26	26
Pallets per container	12	28
Pieces per container	312	728

LUXEN designs, manufactures and delivers high-quality solar panel 1W - 320W, for both on-grid and off-grid systems. OEM/ODM services also can be offered by providing customized design and best cost-effective / proven-performance solar products.

The ISO 9001 management system and a comprehensive range of tests and quality control procedures established according to IEC 61215 / 61730 requisites are implemented in LUXEN's manufacturing facilities, only for one goal: We deliver RELIABLE solar products.



LUXEN SOLAR ENERGY CO., LTD.  
T: +86 512 67081572  
F: +86 512 67081570  
sales@luxensolar.com  
www.luxensolar.com