

ENERGY SYSTEMS

**HYDROPOWER**

load up to 3400 T

## Electrical Characteristics

STC	LNSA-135M	LNSA-140M	LNSA-145M	LNSA-150M
Optimum Operating Voltage (Vmp)	17.6 V	17.7V	18.0V	18.2V
Optimum Operating Current (Imp)	7.67A	7.91A	8.06A	8.24A
Open Circuit Voltage (Voc)	22.1V	22.4V	22.4V	22.5V
Short Circuit Current (Isc)	8.02A	8.15A	8.24A	8.57A
Maximum Power at STC (Pmax)	135W	140W	145W	150W
Cell Efficiency	16.01%	16.61%	17.19%	17.79%
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			

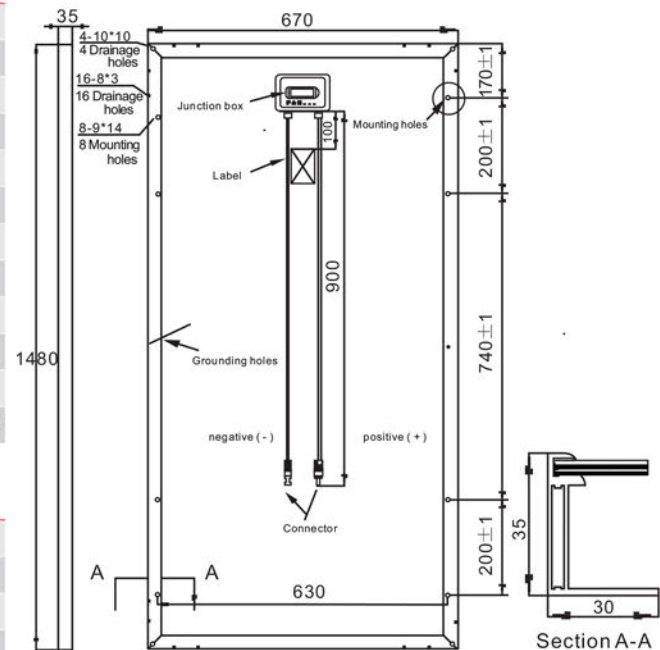
STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 °C, AM=1.5;  
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

NOCT	LNSA-135M	LNSA-140M	LNSA-145M	LNSA-150M
Maximum Power at NOCT (Pmax)	96W	100W	104W	108W
Optimum Operating Voltage (Vmp)	16.0V	16.1V	16.2V	16.3V
Optimum Operating Current (Imp)	6.00A	6.21A	6.42A	6.63A
Open Circuit Voltage (Voc)	20.1V	20.2V	20.3V	20.4V
Short Circuit Current (Isc)	6.61A	6.88A	7.16A	7.41A

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	36 (4 × 9)
Dimensions	1480 × 670 × 35 mm
Weight	9.5 kgs
Front	Glass 3.2 mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67 rated (2 bypass diodes)
Output Cables	TÜV (2Pfg 1169:2007), UL 4703, 4.0 mm <sup>2</sup> , symmetrical length (-) 900mm and (+) 900 mm
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	29	29
Pallets per container	14	30
Pieces per container	406	870

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.



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