

LUXPOWER

LNSF 280M-300M

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.



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	LNSF-300M	LNSF-295M	LNSF-290M	LNSF-285M	LNSF-280M
Optimum Operating Voltage (Vmp)	36.5 V	36.4V	36.3V	36.1V	36.0V
Optimum Operating Current (Imp)	8.22A	8.11A	8.00A	7.89A	7.78A
Open Circuit Voltage (Voc)	45.0V	44.9V	44.7V	44.7V	44.6V
Short Circuit Current (Isc)	8.74A	8.63A	8.51A	8.40A	8.30A
Maximum Power at STC (Pmax)	300W	295W	290W	285W	280W
Cell Efficiency	18.7%	18.1%	17.8%	17.5%	17.1%
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/m², module temperature 25 °C, AM=1.5;
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

NOCT	LNSF-300M	LNSF-295M	LNSF-290M	LNSF-285M	LNSF-280M
Maximum Power at NOCT (Pmax)	217W	213W	209W	206W	202W
Optimum Operating Voltage (Vmp)	33.3V	33.2V	33.1V	32.9V	32.8V
Optimum Operating Current (Imp)	6.51A	6.41A	6.32A	6.25A	6.16A
Open Circuit Voltage (Voc)	41.3V	41.2V	41.0V	41.0V	40.9V
Short Circuit Current (Isc)	7.08A	6.99A	6.89A	6.80A	6.72A

NOCT: Irradiance 800 W/m², 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

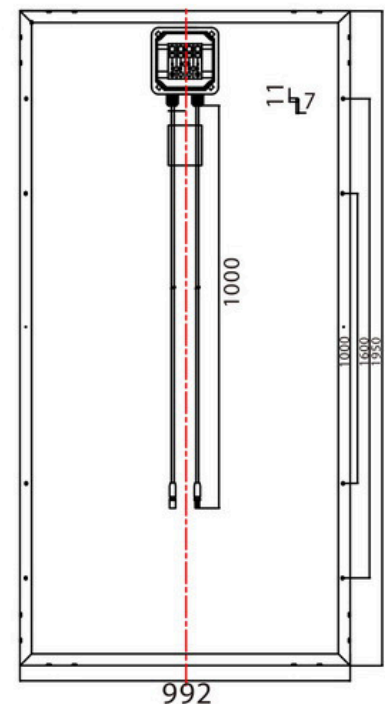
Solar Cell	Mono-crystalline silicon 156 × 156 mm (6 inches)
No. of Cells	72 (6 × 12)
Dimensions	1950 × 992 × 40mm
Weight	23.0 kgs
Front	Glass 4.0 mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67 rated (3 bypass diodes)
Output Cables	TÜV (2Pfg1169:2007), UL 4703, 4.0 mm ² , symmetrical length (-) 1000mm and (+) 1000mm
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	25	25
Pallets per container	10	24
Pieces per container	250	600



LUXEN designs, manufactures and delivers high-quality solar panel 1W - 300W, 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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