

LUXPOWER

LNFF 180M-195M

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 



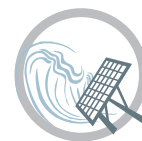
ISO 9001:2008 & ISO 14001 management systems



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 | LNFF-180M | LNFF-185M | LNFF-190M | LNFF-195M |
|---------------------------------|--------------------------------|-----------|-----------|-----------|
| Optimum Operating Voltage (Vmp) | 36.1V | 36.4V | 36.6V | 37.0V |
| Optimum Operating Current (Imp) | 4.99A | 5.09A | 5.19A | 5.27A |
| Open Circuit Voltage (Voc) | 44.4V | 44.6V | 44.8V | 45.0V |
| Short Circuit Current (Isc) | 5.35A | 5.46A | 5.52A | 5.62A |
| Maximum Power at STC (Pmax) | 180W | 185W | 190W | 195W |
| Cell Efficiency | 16.47% | 16.93% | 17.38% | 17.84% |
| 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%

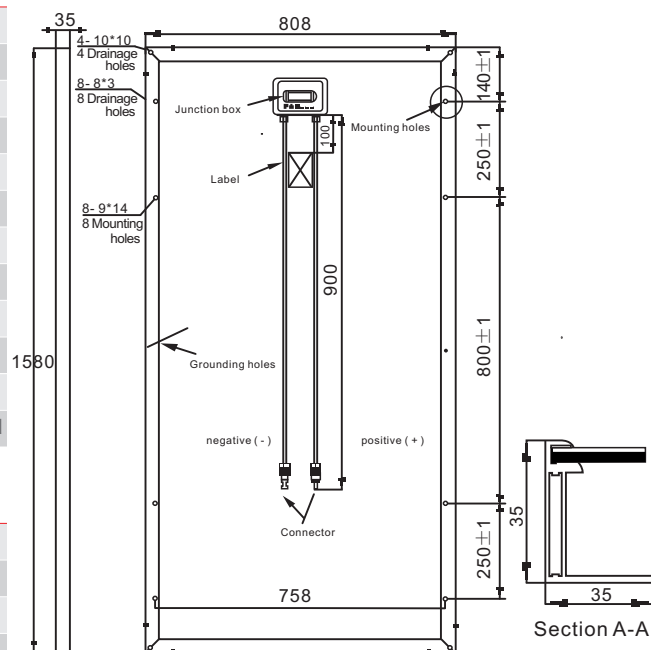
| NOCT | LNFF-180M | LNFF-185M | LNFF-190M | LNFF-195M |
|---------------------------------|-----------|-----------|-----------|-----------|
| Maximum Power at NOCT (Pmax) | 130W | 134W | 137W | 141W |
| Optimum Operating Voltage (Vmp) | 32.9V | 33.2V | 33.4V | 33.7V |
| Optimum Operating Current (Imp) | 3.95A | 4.04A | 4.11A | 4.17A |
| Open Circuit Voltage (Voc) | 40.7V | 40.9V | 41.1V | 41.3V |
| Short Circuit Current (Isc) | 4.32A | 4.42A | 4.47A | 4.55A |

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 125 × 125 mm (5 inches) |
| No. of Cells | 72 (6 × 12) |
| Dimensions | 1580 × 808 × 35mm |
| Weight | 15.5 kgs |
| Front | Glass 3.2 mm tempered glass |
| Frame | Anodized aluminium alloy |
| Junction Box | IP65/IP67 rated (3 bypass diodes) |
| Output Cables | TÜV (2Pfg 1169:2007), UL 4703, 4.0 mm ² , 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 | 29 | 29 |
| Pallets per container | 12 | 28 |
| Pieces per container | 348 | 812 |

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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