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Solar Panel Guide Specification Data Sheet

**Luxen Solar Energy Co., Ltd.
9BB 166 LNSU-430-440M Half Cell
LNSU-430M**

Also available on the web at
EnergyPal.com/luxen-solar-energy-co-ltd-solar-panels/lnsu-430m

LUXEN

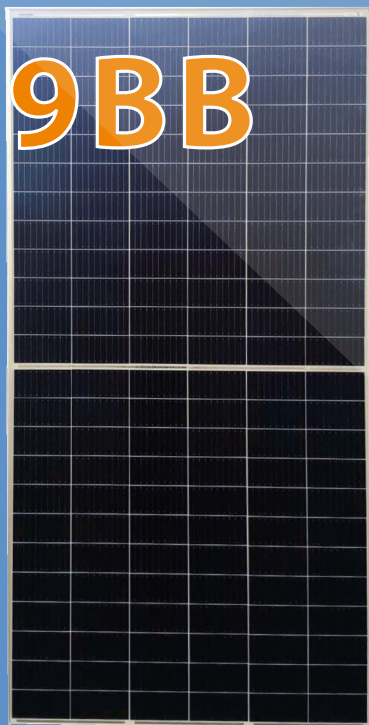
LUXHYPER[®]

MONO

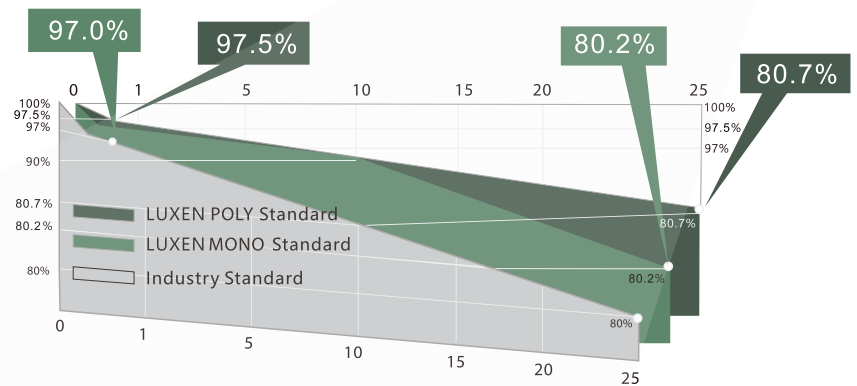
420-440w

LUXHYPER[®] series (Super-efficiency half-cell Modules) Assembled with the advanced half-cell technology offer the advantages of higher power output, reduced series resistance loss, and lower risk of hot spot. In order to meet the Clients' requirements of best quality and efficiency.

144 cells
Half-cut cell modules



LINEAR PERFORMANCE WARRANTY



9BB cell design

Smaller electric current, less CTM loss
Lower risk of hot spot



ISO9001:2015&ISO14001
management systems



IEC61215 & IEC61730
standard quality



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



0-5W positive power sorting



Stable performance under
weak light conditions



25-year power warranty
10-year product warranty



MONO 420-440w 144 cells 9BB

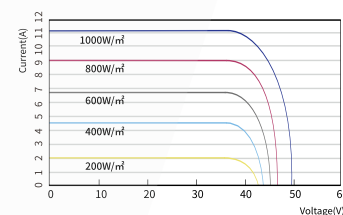
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ELECTRICAL PARAMETERS

| | LNSU-420M | | LNSU-425M | | LNSU-430M | | LNSU-435M | | LNSU-440M | |
|---------------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax) | 420W | 312W | 425W | 315W | 430W | 318W | 435W | 321W | 440W | 324W |
| Open Circuit Voltage (Voc) | 48.80V | 45.39V | 49.00V | 45.45V | 49.20V | 45.45V | 49.39V | 45.48V | 49.59V | 45.51V |
| Short Circuit Current (Isc) | 11.04A | 8.90A | 11.11A | 8.96A | 11.18A | 9.03A | 11.25A | 9.09A | 11.32A | 9.16A |
| Voltage at Maximum Power (Vmpp) | 40.19V | 37.23V | 40.40V | 37.32V | 40.60V | 37.46V | 40.81V | 37.56V | 41.01V | 37.67V |
| Current at Maximum Power (Impp) | 10.45A | 8.38A | 10.52A | 8.44A | 10.59A | 8.49A | 10.66A | 8.55A | 10.73A | 8.60A |
| Module Efficiency(%) | 18.88% | | 19.10% | | 19.33% | | 19.55% | | 19.78% | |

STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G
NOCT: Irradiance 800W/m², ambient temperature 20°C,
 wind speed 1m/s, AM1.5G

LNSU-430M/I-V



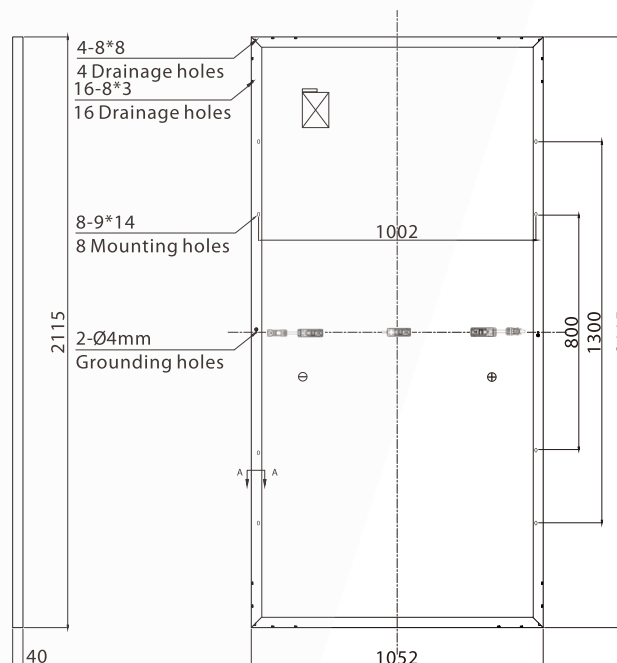
| | |
|--|----------------|
| Operating Module Temperature | -40°C to +85°C |
| Maximum System Voltage | 1500V DC(IEC) |
| Maximum Series Fuse Rating | 20A |
| Power Tolerance | 0/+5W |
| Temperature Characteristics | |
| Nominal Operating Cell Temperature(Noct) | 45±2°C |
| Temperature Coefficient of Pmax | -0.36%/°C |
| Temperature Coefficient of Voc | -0.28%/°C |
| Temperature Coefficient of Isc | +0.05%/°C |

Packing Configuration

| | | |
|-----------------------|--------|--------|
| Container | 20' GP | 40' HQ |
| Pieces per pallet | 26 | 26 |
| Pallets per container | 5 | 22 |
| Pieces per container | 130 | 572 |

Mechanical Characteristics

| | |
|----------------------|---|
| Solar Cell | MONO166x83mm |
| No.of Cell | 144(6x24) |
| Dimensions | 2115x1052x40mm |
| Weight | 25.5kgs |
| Front | 3.2mm tempered glass |
| Frame | Anodized aluminium alloy |
| Junction Box | Ip68 rated(3 by pass diodes) |
| Output Cables | 4.0mm ² symmetrical length 300mm |
| Connectors | MC4 compatible |
| Mechanical load test | Front 5400Pa/Back 2400Pa |



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Note: Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. LUXEN SOLAR have the sole right to make such modification at anytime without further notice.