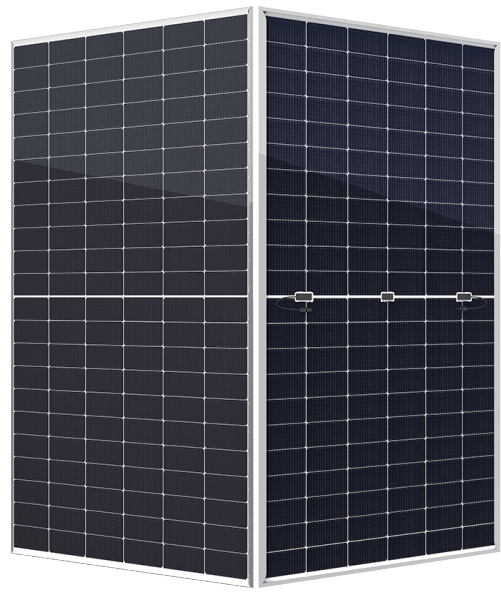


Neptune N-TOPCon

SERIES **N5**

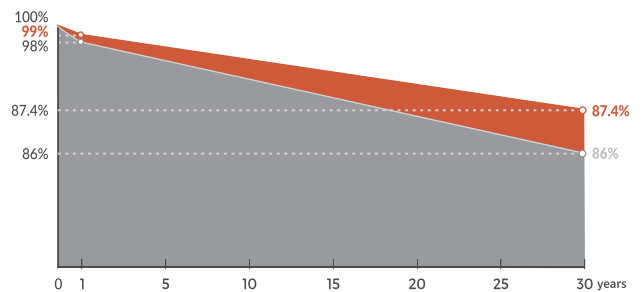
EL-620~630N5-132BH

630W | **23.32%** | **0~+5W**
 Maximum Power Output | Maximum Module Efficiency | Power Output Tolerance



Product and Quality Certifications

- IEC 61215-1:2021, IEC 61730-1:2023
- IEC 61701 / IEC62716 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational Health and Safety Management Systems



Standard linear power guarantee (grey) | East Lux linear power guarantee (orange)

Materials and workmanship warranty **15** YEAR

Linear power warranty **30** YEAR

Key Features



SMBB Technology
 Better light trapping and current collection to improve module power output and reliability.



PID Resistance
 Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



Hot 2.0 Technology
 The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.



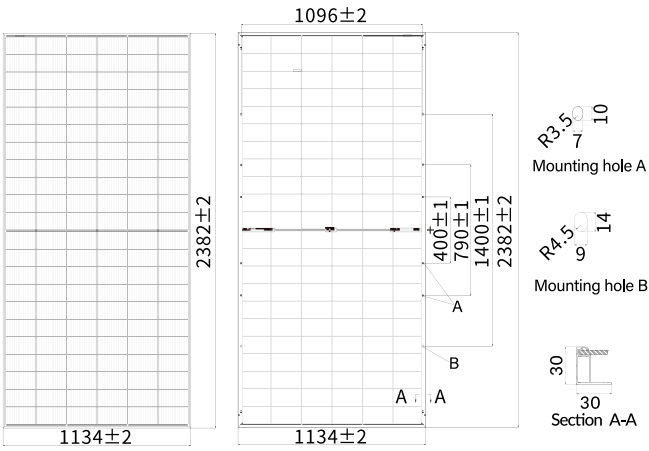
Duplex power generation
 The power gain on both sides increases with the light received on the back, up to 25%.



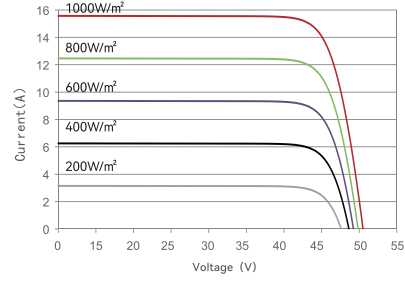
Enhanced Mechanical Load
 Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

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

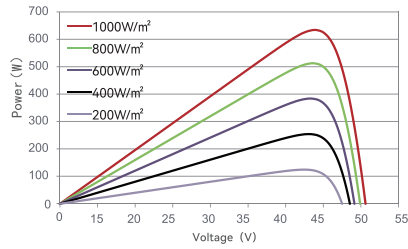
Engineering Drawings



Electical Performance (630W)



I-V curve



P-V curve

Electrical Parameters (STC*)

| | | | |
|--------------------------|-------|-------|-------|
| Maximum Power(W) | 620 | 625 | 630 |
| Maximum Power Voltage(V) | 41.4 | 41.7 | 41.95 |
| Maximum Power Current(A) | 14.98 | 14.99 | 15.02 |
| Open Circuit Voltage(V) | 49.6 | 49.9 | 50.2 |
| Short Circuit Current(A) | 15.91 | 15.92 | 15.94 |
| Module Efficiency(%) | 22.95 | 23.14 | 23.32 |
| Power tolerance | 0~+3% | | |

*Irradiance 1000W/m², Module Temperature 25°C, Air Mass 1.5

Mechanical Parameters

| | |
|-----------------|------------------------------------|
| Cell Type | 182×105mm N-Type |
| Number of Cells | 132cells (2x66) |
| Dimensions | 2382x1134x30mm |
| Weight | 32.5KG |
| Front Glass | 2.0mm, Anti-Reflection Coating |
| Back Glass | 2.0mm, Heat Strengthened Glass |
| Frame | Silver, anodized aluminium alloy |
| J-Box | IP68 Rated, MC4 Compatible |
| Cable | 4mm ² , 300 mm standard |

Electrical Parameters (NOCT*)

| | | | |
|--------------------------|-------|-------|-------|
| Maximum Power(W) | 461.9 | 465.6 | 469.4 |
| Maximum Power Voltage(V) | 38.31 | 38.59 | 38.82 |
| Maximum Power Current(A) | 12.06 | 12.07 | 12.09 |
| Open Circuit Voltage(V) | 45.9 | 46.18 | 46.46 |
| Short Circuit Current(A) | 12.81 | 12.82 | 12.83 |

* Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Temperature Coefficient

| | |
|---|-----------|
| Nominal Operating Cell Temperature (NOCT) | 45±2°C |
| Temperature Coefficient of Isc | 0.045%/°C |
| Temperature Coefficient of Voc | -0.25%/°C |
| Temperature Coefficient of Pmax | -0.29%/°C |

Backside Power Gain (For 630W)

| | | | | | |
|------------------------------|-------|-------|-------|-------|-------|
| Backside Power Gain(%) | 10% | 15% | 20% | 25% | 30% |
| Maximum Power(Pmax/W) | 693 | 724 | 756 | 787 | 819 |
| Open Circuit Voltage(Voc/V) | 50.7 | 50.7 | 50.7 | 50.7 | 50.7 |
| Short Circuit Current(Isc/A) | 17.53 | 18.33 | 19.13 | 19.93 | 20.72 |
| Maximum Power Voltage(Vmp/V) | 42.45 | 42.45 | 42.45 | 42.45 | 42.45 |
| Maximum Power Current(Imp/A) | 16.33 | 17.07 | 17.81 | 18.55 | 19.29 |

Application Parameters

| | |
|-----------------------------|------------------------|
| Operational Temperature(°C) | -40°C~+85°C |
| Maximum System Voltage | 1500V DC |
| Max Series Fuse Rating | 30A |
| Wind/ Snow Load | 2400Pa/5400Pa |
| Packaging Configuration | 36PCS/PLT, 720PCS/40HQ |