



Neptune N-TOPCon

SERIES **N5**

EL-605~625N5-156BH

625W

22.36%

0~+5W

Maximum Power Output

Maximum Module Efficiency

Power Output Tolerance

Product and Quality Certifications

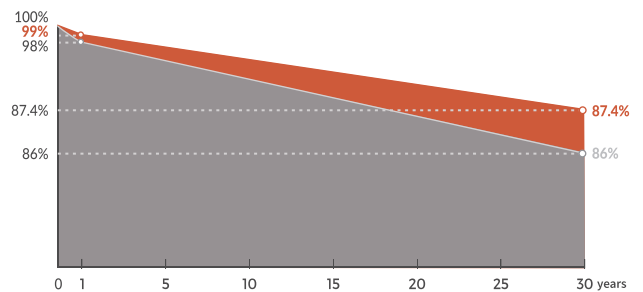
IEC 61215, IEC 61730

ISO 9001: 2015 Quality Management System

ISO 14001: 2015 Environment Management System

IEC 62716, IEC 61701: Ammonia, Salt mist corrosion test

IEC TS 62804-1, IEC 60068-2-68: PID test, Dust and Sand test



Standard linear power guarantee

East Lux linear power guarantee

Materials and workmanship warranty **15** YEAR

Linear power warranty **30** YEAR

Key Features



High Efficiency

Module efficiency leading in industry, up to 22.36%



Excellent Anti-PID & Low LID Performance

Excellent Anti-PID performance guarantee via optimized mass-production process. The N-type module has better reliability and lower LID/LETID.



SMBB Technology

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



Better Temperature Coefficient

Higher power output even under low-light environments like on cloudy or foggy days



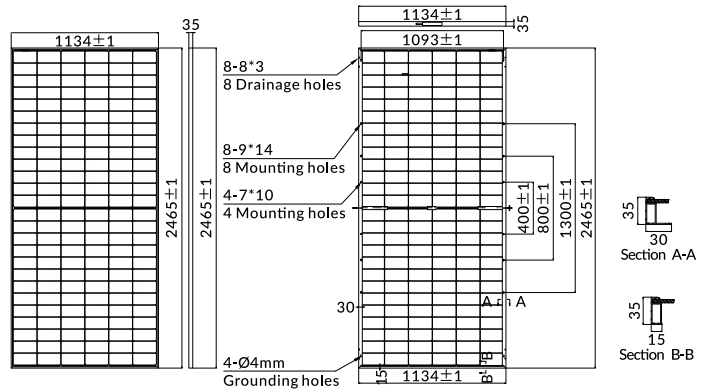
High Reliability

15 years materials warranty, 30 years power warranty

MECHANICAL CHARACTERISTICS

| | |
|----------------------|-------------------------------------|
| Solar Cells | N-type Mono |
| No. of Cells | 156 (6x26) |
| Dimensions | 2465 x 1134 x 35mm |
| Weight | 35.0kg |
| Front Glass | 2.0mm coated semi-tempered glass |
| Back Glass | 2.0mm semi-tempered glass |
| Junction Box | Ip68 rated (3 by pass diodes) |
| Output Cables | 4.0mm ² |
| Frame Size | 300mm (+) / 300mm (-) or customized |
| Frame Size | 35mm |
| Connectors | Mc4 compatible |
| Mechanical load test | 5400Pa |

ENGINEERING DRAWING (MM)



ELECTRICAL PARAMETERS

| POWER CLASS | EL-605N5-156BH | EL-610N5-156BH | EL-615N5-156BH | EL-620N5-156BH | EL-625N5-156BH |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|
| | STC | STC | STC | STC | STC |
| Maximum power (Pmax) | 605W | 610W | 615W | 620W | 625W |
| Open Circuit Voltage (Voc) | 55.30V | 55.41V | 55.53V | 55.64V | 55.75V |
| Short Circuit Current (Isc) | 13.97A | 14.04A | 14.11A | 14.18A | 14.25A |
| Voltage at Maximum power (Vmpp) | 45.63V | 45.76V | 45.90V | 46.03V | 46.16V |
| Current Maximum Power (Impp) | 13.26A | 13.33A | 13.40A | 13.47A | 13.54A |
| MODULE EFFICIENCY (%) | 21.64% | 21.82% | 22.00% | 22.18% | 22.36% |

STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G

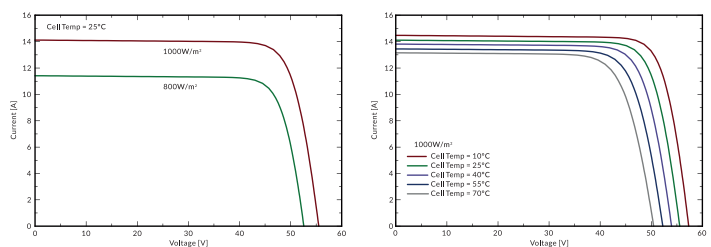
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

| | | EL-605N5-156BH | EL-610N5-156BH | EL-615N5-156BH | EL-620N5-156BH | EL-625N5-156BH |
|-----|---------------------------|----------------|----------------|----------------|----------------|----------------|
| 5% | Maximum power (Pmax) | 635W | 641W | 646W | 651W | 656W |
| | Module Efficiency STC (%) | 22.73% | 22.91% | 23.10% | 23.29% | 23.48% |
| 15% | Maximum power (Pmax) | 696W | 702W | 707W | 713W | 719W |
| | Module Efficiency STC (%) | 24.89% | 25.10% | 25.30% | 25.51% | 25.71% |
| 25% | Maximum Power (Pmax) | 756W | 763W | 769W | 775W | 781W |
| | Module Efficiency STC (%) | 27.05% | 27.28% | 27.50% | 27.73% | 27.95% |

PACKING CONFIGURATION

| | | |
|-----------------------|-------|-------|
| Container | 20'GP | 40'HQ |
| Pieces per pallet | 36 | 36 |
| Pallets per container | 4 | 16 |
| Pieces per container | 144 | 576 |

CHARACTERISTIC CURVES (620W)



OPERATING CHARACTERISTICS

| | |
|------------------------------|----------------|
| Operating Module Temperature | -40°C to +85°C |
| Maximum System Voltage | 1500 DC (IEC) |
| Maximum Series Fuse Rating | 30A |
| Power Tolerance | 0/+5W |

TEMPERATURE CHARACTERISTICS

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