



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

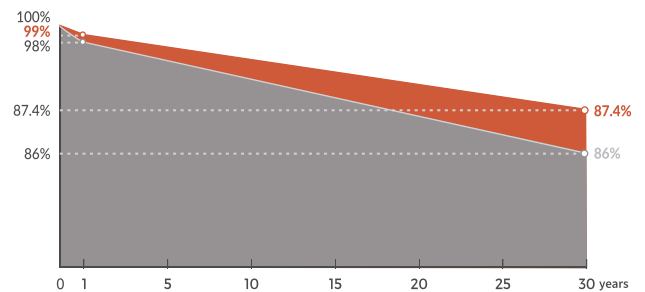
IEC 61215, IEC 61730

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



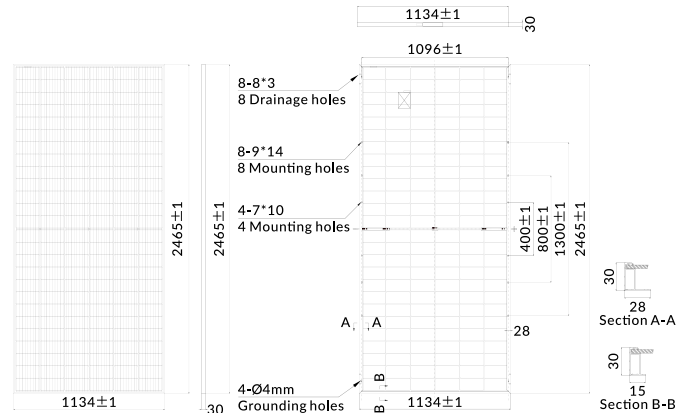
High Reliability

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 30mm
Weight	34.5kgs
Front Glass	2.0mm coated semi-tempered glass
Back Glass	2.0mm semi-tempered glass
Junction Box	Ip68 rated (3 by pass diodes)
	4.0mm ²
Output Cables	300mm (+) / 300mm (-)
	Length can be customized
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

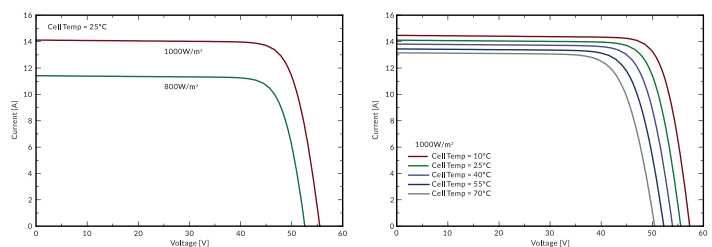
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

		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