



Neptune N-TOPCon

SERIES **N5**

EL-610~630N5-156H

630W

22.54%

0~+5W

Maximum Power Output

Maximum Module Efficiency

Power Output Tolerance

Product and Quality Certifications

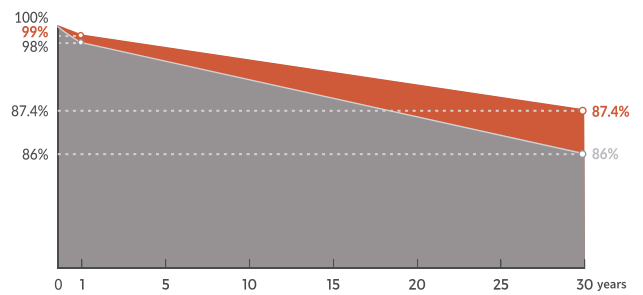
IEC 61215, IEC 61730

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 22.54%



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



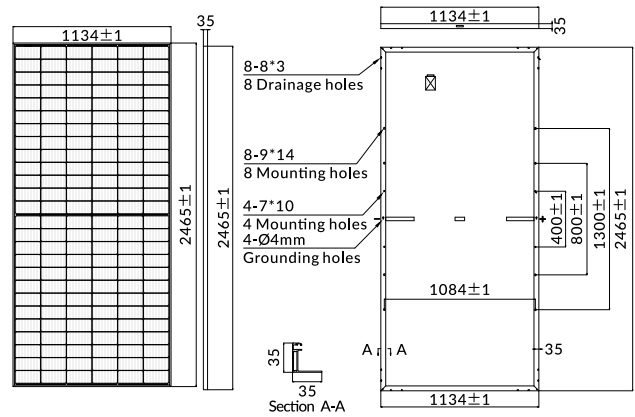
High Reliability

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	30.0kg
Front Glass	3.2mm coated tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 by pass diodes)
Output Cables	4.0mm ²
	300mm (+) / 300mm (-) or customized
Frame Size	35mm
Connectors	Mc4 compatible
Mechanical load test	5400Pa

ENGINEERING DRAWING (MM)



ELECTRICAL PARAMETERS

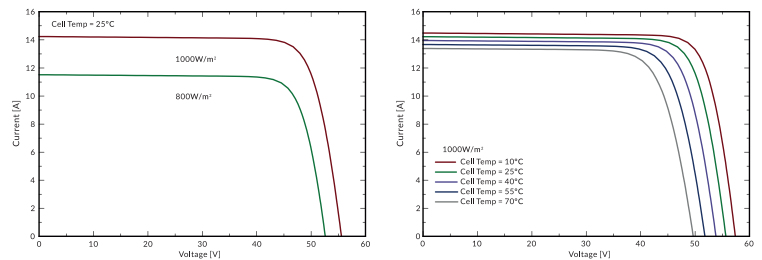
POWER CLASS	EL-610N5-156H		EL-615N5-156H		EL-620N5-156H		EL-625N5-156H		EL-630N5-156H	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	610W	459W	615W	463W	620W	467W	625W	471W	630W	475W
Open Circuit Voltage (Voc)	55.25V	52.50V	55.40V	52.66V	55.55V	52.82V	55.70V	52.98V	55.84V	53.13V
Short Circuit Current (Isc)	14.10A	11.41A	14.17A	11.47A	14.24A	11.53A	14.31A	11.59A	14.38A	11.65A
Voltage at Maximum power (Vmpp)	45.73V	42.34V	45.86V	42.48V	45.99V	42.61V	46.13V	42.74V	46.26V	42.87V
Current Maximum Power (Impp)	13.34A	10.84A	13.41A	10.90A	13.48A	10.96A	13.55A	11.02A	13.62A	11.08A
MODULE EFFICIENCY (%)	21.82%		22.00%		22.18%		22.36%		22.54%	

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

PACKING CONFIGURATION

Container	20'GP	40'HQ
Pieces per pallet	31	31
Pallets per container	4	16
Pieces per container	124	496

CHARACTERISTIC CURVES (620W)



OPERATING CHARACTERISTICS

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	0/+5W

TEMPERATURE CHARACTERISTICS

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.046%/°C