



German Invested & Engineered



Neptune N-TOPCon

SERIES N5

EL-510~530N5-132H

530W

22.32%

0~+5W

Maximum Power Output

Maximum Module Efficiency

Power Output Tolerance

Product and Quality Certifications

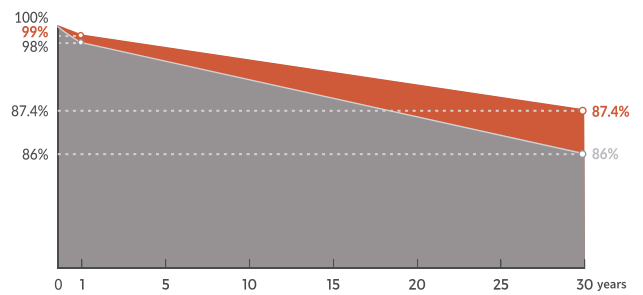
IEC 61215, IEC 61730

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 22.32%



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

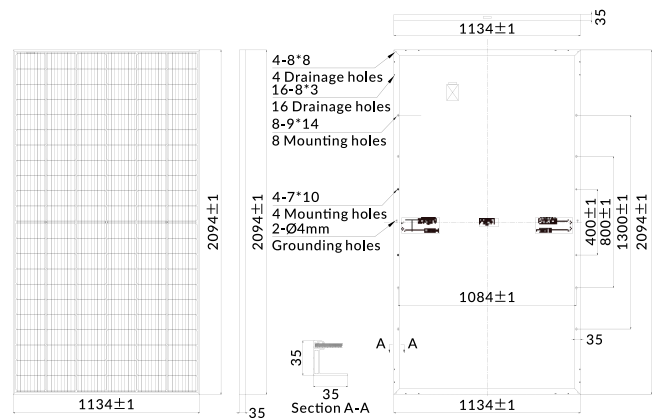
15 years materials warranty, 30 years power warranty

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.

MECHANICAL CHARACTERISTICS

Solar Cells	N-type Mono
No. of Cells	132 (6x22)
Dimensions	2094 x 1134 x 35mm
Weight	25.5kgs
Front Glass	3.2mm coated tempered glass
Frame	Anodized aluminium alloy
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

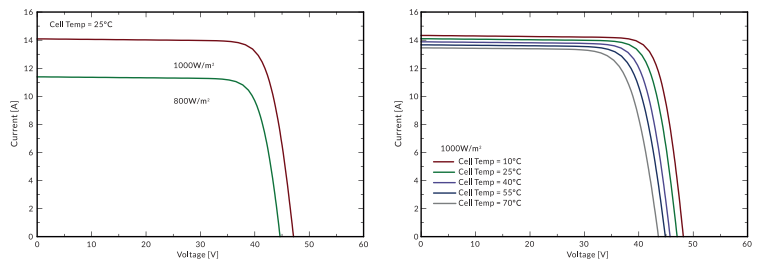
POWER CLASS	EL-510N5-132H		EL-515N5-132H		EL-520N5-132H		EL-525N5-132H		EL-530N5-132H	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	510W	383W	515W	387W	520W	391W	525W	395W	530W	399W
Open Circuit Voltage (Voc)	46.64V	44.41V	46.84V	44.58V	47.03V	44.74V	47.22V	44.90V	47.41V	45.05V
Short Circuit Current (Isc)	14.00A	11.28A	14.07A	11.34A	14.14A	11.40A	14.21A	11.46A	14.28A	11.52A
Voltage at Maximum power (Vmpp)	39.02V	35.93V	39.19V	36.10V	39.36V	36.27V	39.53V	36.44V	39.70V	36.61V
Current Maximum Power (Imp)	13.07A	10.66A	13.14A	10.72A	13.21A	10.78A	13.28A	10.84A	13.35A	10.90A
MODULE EFFICIENCY (%)	21.48%		21.69%		21.90%		22.11%		22.32%	

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	5	22
Pieces per container	155	682

CHARACTERISTIC CURVES (520W)



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