



Neptune N-TOPCon

SERIES **N5**

EL-505~525N5-132BH

525W

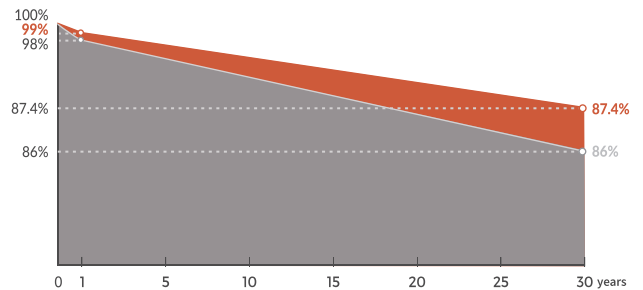
22.11%

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 22.11%



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



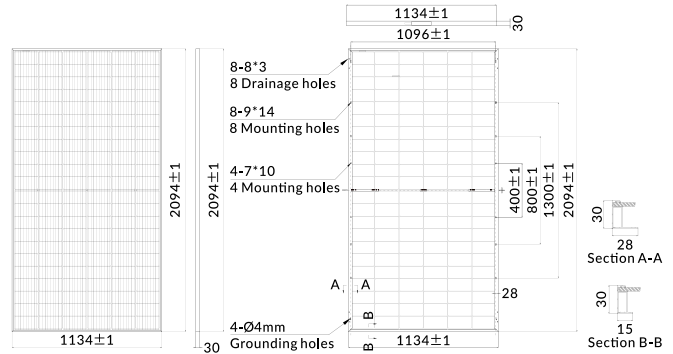
High Reliability

15 years materials warranty, 30 years power warranty

MECHANICAL CHARACTERISTICS

Solar Cells	N-type Mono
No. of Cells	132 (6x22)
Dimensions	2094 x 1134 x 30mm
Weight	28.5kgs
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
	300mm (+) / 300mm (-)
Connectors	Length can be customized
	Mc4 compatible
Mechanical load test	5400Pa

ENGINEERING DRAWING (MM)



ELECTRICAL PARAMETERS

POWER CLASS	EL-505N5-132BH	EL-510N5-132BH	EL-515N5-132BH	EL-520N5-132BH	EL-525N5-132BH
	STC	STC	STC	STC	STC
Maximum power (Pmax)	505W	510W	515W	520W	525W
Open Circuit Voltage (Voc)	46.59V	46.75V	46.92V	47.08V	47.24V
Short Circuit Current (Isc)	13.91A	13.98A	14.05A	14.12A	14.19A
Voltage at Maximum power (Vmpp)	38.26V	38.43V	38.61V	38.78V	38.95V
Current Maximum Power (Impp)	13.20A	13.27A	13.34A	13.41A	13.48A
MODULE EFFICIENCY (%)	21.27%	21.48%	21.69%	21.90%	22.11%

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

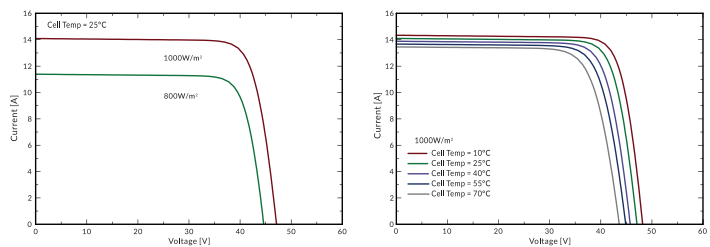
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

%	Parameter	EL-505N5-132BH	EL-510N5-132BH	EL-515N5-132BH	EL-520N5-132BH	EL-525N5-132BH
		Maximum power (Pmax)	530W	536W	541W	546W
5%	Module Efficiency STC (%)	22.33%	22.55%	22.77%	22.99%	23.21%
15%	Maximum power (Pmax)	581W	587W	592W	598W	604W
	Module Efficiency STC (%)	24.46%	24.70%	24.94%	25.18%	25.43%
25%	Maximum Power (Pmax)	631W	638W	644W	650W	656W
	Module Efficiency STC (%)	26.58%	26.85%	27.11%	27.37%	27.64%

PACKING CONFIGURATION

Container	20'GP	40'HQ
Pieces per pallet	36	36
Pallets per container	5	22
Pieces per container	180	792

CHARACTERISTIC CURVES (520W)



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