

LUXPOWER® SERIES **N5**

585W Mono BIFACIAL DG

132 Half-Cell Layout

M10/182mm N-TOPCon Cell



LECO N-TOPCon Cell Technology



SMBB Half Cut Cell Technology



Bifacial Cell Module Technologies



Excellent Anti-PID Low LID Performance

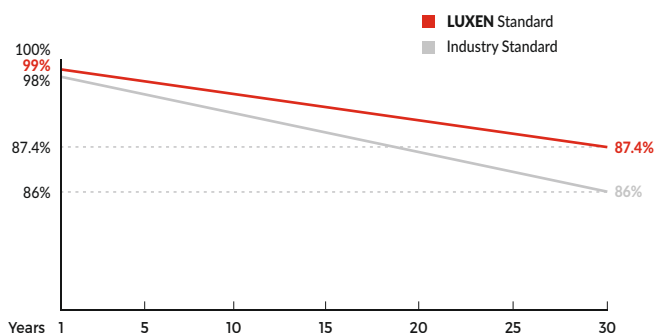


Less Hot Spot Shading Effects



Higher Power Output Lower BOS & LCOE

Linear performance Warranty



Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215/IEC61730 Standard Quality
- IEC61701/IEC62716 Salt/Mist/Ammonia Tests



LUXEN SOLAR ENERGY CO., LTD.

Manufacturer: A301, Zhongyi Building, No.59 Wuzhong Avenue, Wuzhong District, Suzhou, 215168, China

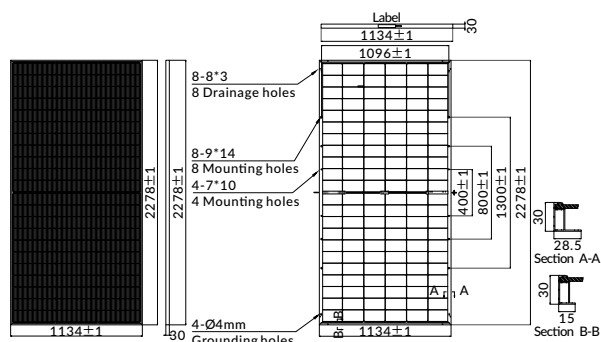
Factory: No.1 Haiyue Road, Suxitong Industrial Park, Nantong, 226000, China

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MECHANICAL CHARACTERISTICS

Solar Cells	N-type Mono
No. of Cells	132 (6x22)
Dimensions	2278 x 1134 x 30mm
Weight	31.5kg
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	280mm (+) / 350mm (-)
	Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa



ELECTRICAL PARAMETERS

POWER CLASS	LNCT-585ND	
	STC	NMOT
Maximum power (Pmax)	585W	441W
Open Circuit Voltage (Voc)	48.27V	45.50V
Short Circuit Current (Isc)	15.33A	12.26A
Voltage at Maximum power (Vmpp)	40.46V	38.12V
Current Maximum Power (Impp)	14.46A	11.57A
MODULE EFFICIENCY (%)	22.60%	

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

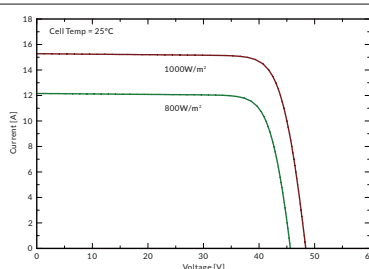
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum power (Pmax)	614W
	Module Efficiency STC (%)	23.78%
15%	Maximum power (Pmax)	673W
	Module Efficiency STC (%)	26.04%
25%	Maximum Power (Pmax)	731W
	Module Efficiency STC (%)	28.31%

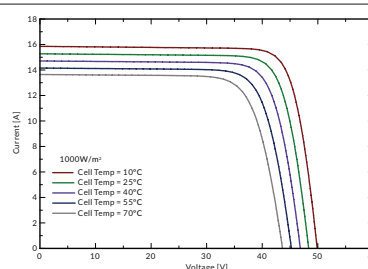
PACKING CONFIGURATION

Container	40'HQ
Pieces per pallet	36
Pallets per container	20
Pieces per container	720

I-V CURVE



LNCT-585ND/I-V



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

Note: The specifications, data and technical characteristics provided in this data sheet are subject to changes due to continuous R&D, product innovation and improvement. LUXEN SOLAR reserves the right to modify the information any time without prior notice.