

LUXPOWER® SERIES **N**5



565-585W Mono BIFACIAL DG

132 Half-Cell Layout

M10R N-TYPE Cell



LECO N-TYPE
Cell Technology



SMBB Half Cut
Cell Technology



Bifacial Cell
Module Technologies



Excellent
Anti-PID
Low LID
Performance

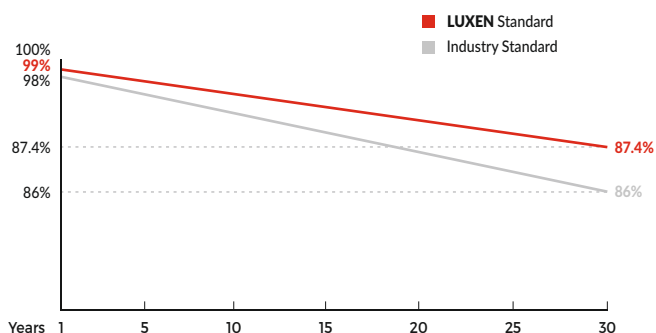


Less Hot Spot
Shading Effects



Higher Power Output
Lower BOS & LCOE

Linear Performance Warranty



* LUXEN N-TYPE: Standard warranty 15 years, can be extended up to 20 years.

Insured By



Comprehensive Certificates

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



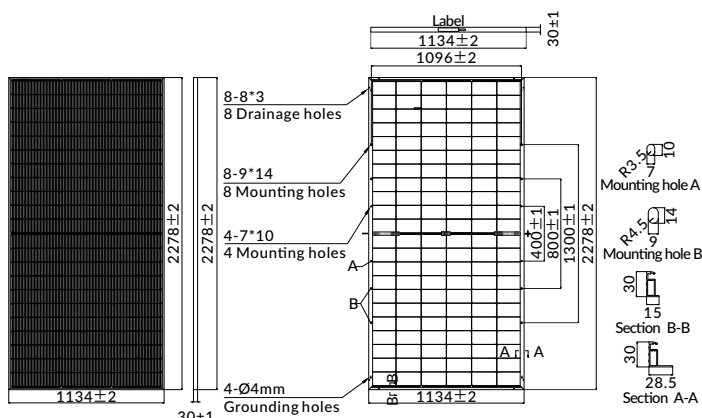
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MECHANICAL CHARACTERISTICS

Solar Cells	N-type Mono
No. of Cells	132 (6x22)
Dimensions	2278 x 1134 x 30mm
Weight	31.5kg
Front / Back Glass	2.0mm coated semi-tempered glass
Frame	Anodized aluminium alloy (reinforced high-load optional)
Junction Box	Ip68 rated (3 by pass diodes)
	4.0mm ²
Output Cables	250mm (+) / 350mm (-)
	Length can be customized
Connectors	Mc4 compatible
Mechanical load test	Front 5400Pa / Rear 2400Pa



ELECTRICAL PARAMETERS

POWER CLASS	LNCT-565ND		LNCT-570ND		LNCT-575ND		LNCT-580ND		LNCT-585ND	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	565W	425W	570W	429W	575W	433W	580W	437W	585W	441W
Open Circuit Voltage (Voc)	47.45V	44.60V	47.66V	44.83V	47.86V	45.05V	48.07V	45.28V	48.27V	45.50V
Short Circuit Current (Isc)	15.09A	12.07A	15.15A	12.12A	15.21A	12.17A	15.27A	12.22A	15.33A	12.26A
Voltage at Maximum power (Vmpp)	39.73V	37.36V	39.92V	37.55V	40.10V	37.74V	40.28V	37.93V	40.46V	38.12V
Current Maximum Power (Imp)	14.22A	11.38A	14.28A	11.42A	14.34A	11.47A	14.40A	11.52A	14.46A	11.57A
MODULE EFFICIENCY (%)	21.87%		22.07%		22.26%		22.45%		22.65%	

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

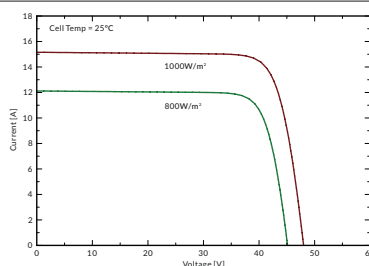
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum power (Pmax)	593W	599W	604W	609W	614W
	Module Efficiency STC (%)	22.97%	23.17%	23.37%	23.57%	23.78%
15%	Maximum power (Pmax)	650W	656W	661W	667W	673W
	Module Efficiency STC (%)	25.15%	25.37%	25.60%	25.82%	26.04%
25%	Maximum Power (Pmax)	706W	713W	719W	725W	731W
	Module Efficiency STC (%)	27.34%	27.58%	27.82%	28.07%	28.31%

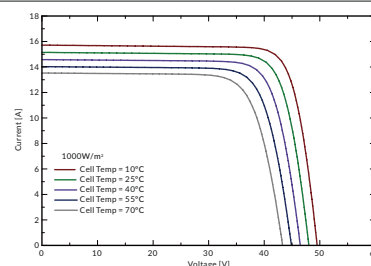
PACKING CONFIGURATION

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

I-V CURVE



LNCT-575ND/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 technical parameters included in this datasheet may have minor deviations, and Luxen does not guarantee absolute accuracy. Due to ongoing product innovation and enhancements, Luxen reserves the right to modify the information in this manual at any time without prior notice. Customers should obtain the latest version of the technical manual when signing the contract, and it shall be considered an integral part of the binding contract between the parties. Please note that qualified professionals should handle and install solar modules to ensure optimal module performance.