LUXEN SOLAR

Quality Maker

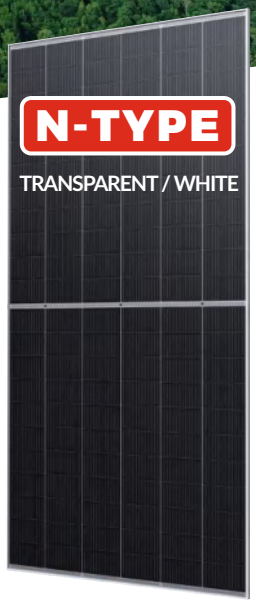
LUXPOWER® SERIES N6

Tier 1 BloombergNEF | 30 years POWER WARRANTY | *Up to 20 years PRODUCT WARRANTY

685-705W Mono BIFACIAL DG

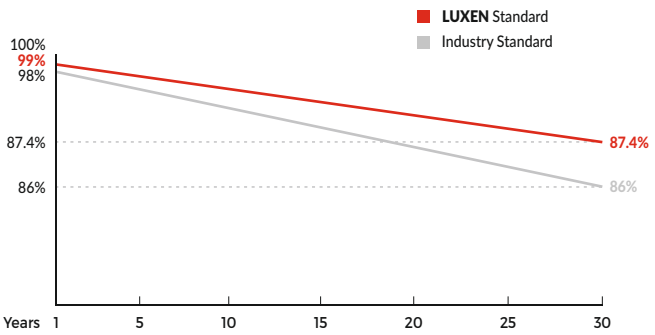
132 Half-Cell Layout

G12/210mm 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

China Continent Insurance | Ariel Re | LLOYD'S Underwriters | PICC

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.

Production HQ: No.1, Haiyue Road, Nantong, Jiangsu, 226000, China

T: +86 512 6708 1572 **I F:** +86 512 6708 1570 **I** sales@luxensolar.com

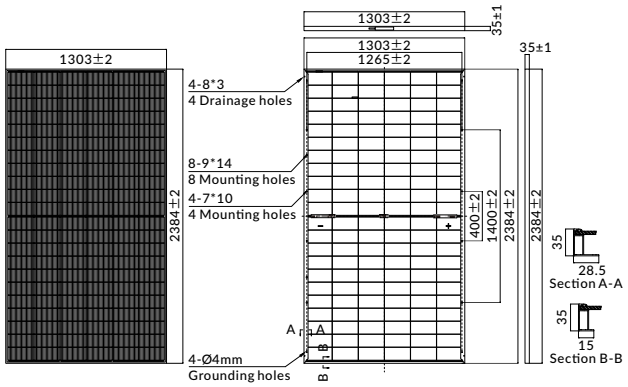
www.luxensolar.com

LUXPOWER® Mono I 685 - 705W BIFACIAL DG

Quality Maker

MECHANICAL CHARACTERISTICS

Solar Cells	N-type Mono
No. of Cells	132 (6x22)
Dimensions	2384 x 1303 x 35mm
Weight	38.5kg
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)
Output Cables	4.0mm²
	250mm (+) / 350mm (-)
	Length can be customized
Connectors	Mc4 compatible
Mechanical load test	Front 5400Pa / Rear 2400Pa



ELECTRICAL PARAMETERS

POWER CLASS	LNET-685ND		LNET-690ND		LNET-695ND		LNET-700ND		LNET-705ND	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	685W	522W	690W	526W	695W	530W	700W	534W	705W	538W
Open Circuit Voltage (Voc)	48.02V	45.27V	48.22V	45.45V	48.42V	45.63V	48.61V	45.81V	48.80V	45.99V
Short Circuit Current (Isc)	18.22A	14.80A	18.26A	14.84A	18.30A	14.88A	18.34A	14.92A	18.38A	14.96A
Voltage at Maximum power (Vmpp)	39.78V	37.29V	40.00V	37.49V	40.22V	37.70V	40.44V	37.90V	40.66V	38.10V
Current Maximum Power (Impp)	17.22A	14.00A	17.25A	14.03A	17.28A	14.06A	17.31A	14.09A	17.34A	14.12A
MODULE EFFICIENCY (%)	22.05%		22.21%		22.37%		22.53%		22.70%	

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

BIFACIAL OUTPUT-REARSIDE POWER GAIN

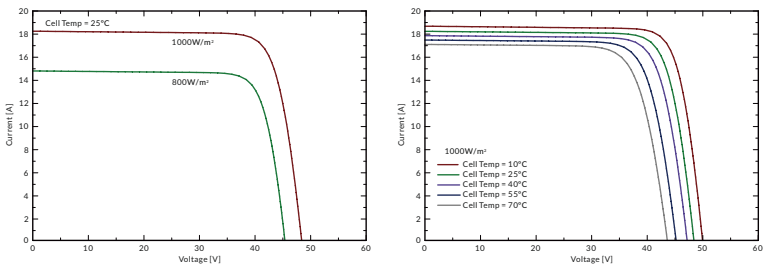
5%	Maximum power (Pmax)	719W	725W	730W	735W	740W
	Module Efficiency STC (%)	23.15%	23.32%	23.49%	23.66%	23.83%
15%	Maximum power (Pmax)	788W	794W	799W	805W	811W
	Module Efficiency STC (%)	25.36%	25.54%	25.73%	25.91%	26.10%
25%	Maximum Power (Pmax)	856W	863W	869W	875W	881W
	Module Efficiency STC (%)	27.56%	27.77%	27.97%	28.17%	28.37%

PACKING CONFIGURATION

Container	40'HQ
Pieces per pallet	32
Pallets per container	18
Pieces per container	576

I-V CURVE

LNET-690ND/I-V



OPERATING CHARACTERISTICS

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 DC (IEC)
Maximum Series Fuse Rating	35A
Power Tolerance	0/+5W

TEMPERATURE CHARACTERISTICS

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.30%°C
Temperature Coefficient of Voc	-0.24%°C
Temperature Coefficient of Isc	+0.04%°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.

LUXEN SOLAR