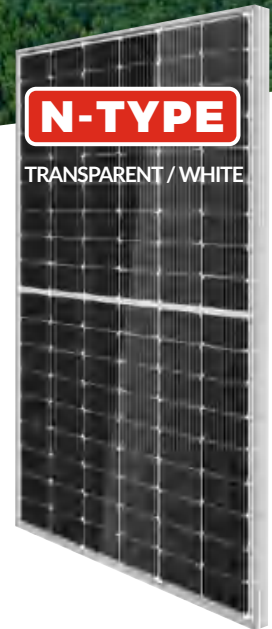


# LUXPOWER® SERIES **N**5



## 420-440W Mono BIFACIAL DG 108 Half-Cell Layout M10 N-TYPE Cell



LECO N-TYPE Cell Technology



SMBB Half Cut Cell Technology



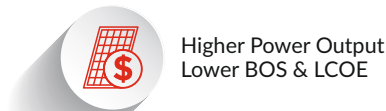
Bifacial Cell Module Technologies



Excellent Anti-PID Low LID Performance

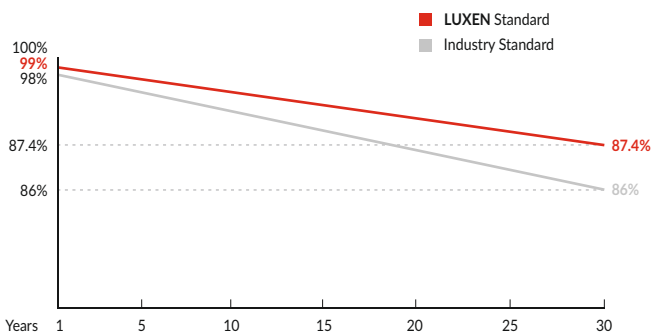


Less Hot Spot Shading Effects



Higher Power Output Lower BOS & LCOE

### Linear Performance Warranty



\*

### Insured By



### Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215:2021 / IEC61730:2023 Standard Quality



LUXEN SOLAR ENERGY CO., LTD.

Manufacturer add: A301, Building 6, Zhongyi Tower, No.59, Wuzhong Avenue, Wuzhong District, Suzhou City, Jiangsu Province, P.R.China

Factory add: No.1 Haiyue Road, Suxitong Technologies & Industries Park, Nantong City, Jiangsu Province, P.R.China

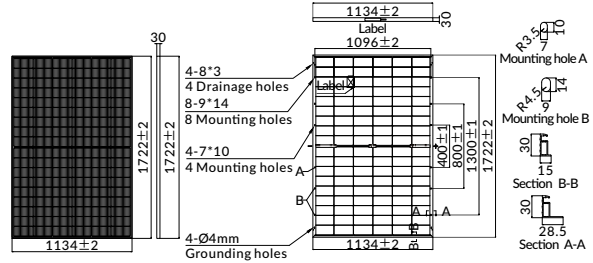
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Made in China

MECHANICAL CHARACTERISTICS

Solar Cells	N-TYPE Mono
No. of Cells	108 (6x18)
Dimensions	1722 x 1134 x 30mm
Weight	23.5kgs
Front/Black 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 <sup>2</sup>
Output Cables	250mm (+) / 350mm (-)
	Length can be customized
Connectors	Jiangsu Tonglin Electric Co., Ltd
	TL-CABLE01S Pro
Mechanical load test	Front 5400Pa / Rear 2400Pa
PV Module Fire Class	Fire safety class according to UL790: Class A



ELECTRICAL PARAMETERS

POWER CLASS	LNVB-420ND		LNVB-425ND		LNVB-430ND		LNVB-435ND		LNVB-440ND	
	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum power (Pmax)±3%	420W	465W	425W	471W	430W	476W	435W	482W	440W	488W
Open Circuit Voltage (Voc)±5%	38.49V	38.62V	38.73V	38.86V	38.96V	39.10V	39.19V	39.33V	39.42V	39.56V
Short Circuit Current (Isc)±5%	13.99A	15.44A	14.06A	15.52A	14.13A	15.60A	14.20A	15.68A	14.27A	15.75A
Voltage at Maximum power (Vmpp)	31.63V		31.84V		32.04V		32.25V		32.45V	
Current Maximum Power (Impp)	13.28A		13.35A		13.42A		13.49A		13.56A	
MODULE EFFICIENCY (%)	21.51%		21.76%		22.02%		22.28%		22.53%	

STC: Irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, AM1.5G BNPI: The front irradiance is 1000W/m<sup>2</sup>, the back irradiance is 135W/m<sup>2</sup>, cell temperature is 25°C, AM1.5G

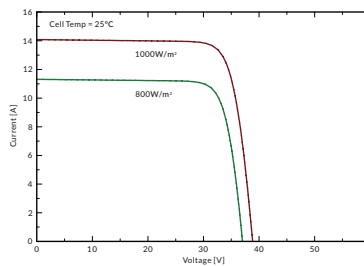
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

		LNVB-420ND		LNVB-425ND		LNVB-430ND		LNVB-435ND		LNVB-440ND	
		STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
5%	Maximum power (Pmax)	441W		446W		452W		457W		462W	
	Module Efficiency STC (%)	22.58%		22.85%		23.12%		23.39%		23.66%	
15%	Maximum power (Pmax)	483W		489W		495W		500W		506W	
	Module Efficiency STC (%)	24.73%		25.03%		25.32%		25.62%		25.91%	
25%	Maximum Power (Pmax)	525W		531W		538W		544W		550W	
	Module Efficiency STC (%)	26.89%		27.21%		27.53%		27.85%		28.17%	

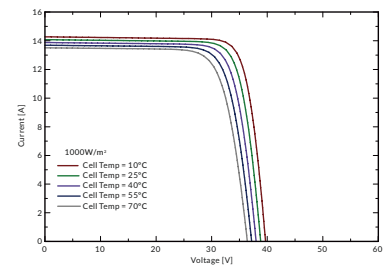
PACKING CONFIGURATION

Container	20'GP	40'HQ
Pieces per pallet	36	36
Pallets per container	6	26
Pieces per container	216	936

I-V CURVE



LNVB-430ND/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 ~+3%

BIFACIALITY COEFFICIENT

φVoc / Tolerance ±5%	99%
φIsc / Tolerance ±10%	80%
φPmax / Tolerance ±10%	80%

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.

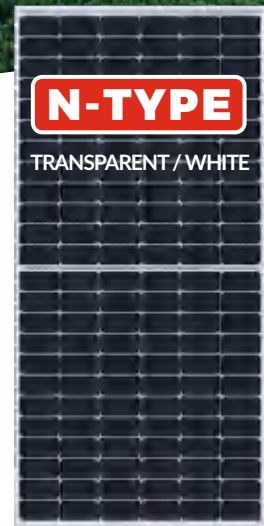
# LUXPOWER® SERIES **N**5



# 570-590W Mono BIFACIAL DG

## 144 Half-Cell Layout

### M10 N-TYPE Cell



LECO N-TYPE Cell Technology



SMBB Half Cut Cell Technology



Bifacial Cell Module Technologies



Excellent Anti-PID Low LID Performance

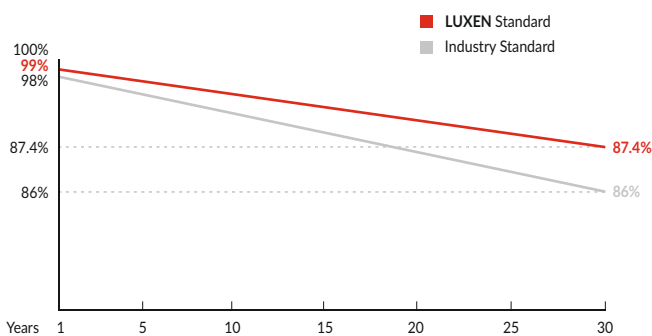


Less Hot Spot Shading Effects



Higher Power Output Lower BOS & LCOE

### Linear Performance Warranty



### Insured By



### Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215:2021 / IEC61730:2023 Standard Quality



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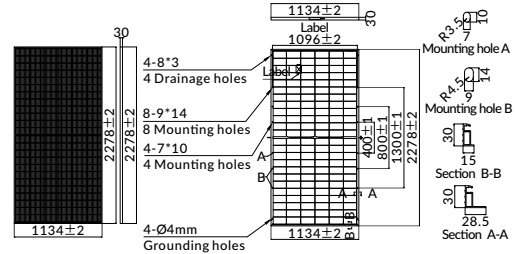
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[www.luxensolar.com](http://www.luxensolar.com)

Made in China

MECHANICAL CHARACTERISTICS

Solar Cells	N-TYPE Mono
No. of Cells	144 (6x24)
Dimensions	2278 x 1134 x 30mm
Weight	31.5kgs
Front/Black 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 <sup>2</sup>
Output Cables	250mm (+) / 350mm (-)
	Length can be customized
Connectors	Jiangsu Tonglin Electric Co., Ltd
	TL-CABLE01S Pro
Mechanical load test	Front 5400Pa / Rear 2400Pa
PV Module Fire Class	Fire safety class according to UL790: Class A



ELECTRICAL PARAMETERS

POWER CLASS	LNVU-570ND		LNVU-575ND		LNVU-580ND		LNVU-585ND		LNVU-590ND	
	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum power (Pmax)±3%	570W	632W	575W	637W	580W	643W	585W	648W	590W	654W
Open Circuit Voltage (Voc)±5%	51.41V	51.60V	51.55V	51.73V	51.68V	51.86V	51.81V	52.00V	51.94V	52.13V
Short Circuit Current (Isc)±5%	14.15A	15.62A	14.22A	15.70A	14.29A	15.78A	14.36A	15.85A	14.43A	15.93A
Voltage at Maximum power (Vmpp)	42.41V		42.56V		42.71V		42.86V		43.00V	
Current Maximum Power (Impp)	13.44A		13.51A		13.58A		13.65A		13.72A	
MODULE EFFICIENCY (%)	22.07%		22.26%		22.45%		22.65%		22.84%	

STC: Irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, AM1.5G BNPI: The front irradiance is 1000W/m<sup>2</sup>, the back irradiance is 135W/m<sup>2</sup>, cell temperature is 25°C, AM1.5G

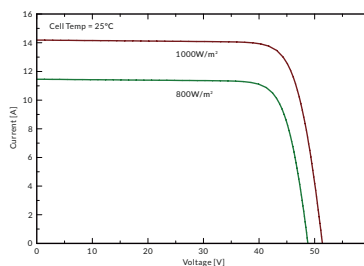
BIFACIAL OUTPUT-REARSIDE POWER GAIN

5%	Maximum power (Pmax)	599W	604W	609W	614W	620W
	Module Efficiency STC (%)	23.17%	23.37%	23.57%	23.78%	23.98%
15%	Maximum power (Pmax)	656W	661W	667W	673W	679W
	Module Efficiency STC (%)	25.37%	25.60%	25.82%	26.04%	26.27%
25%	Maximum Power (Pmax)	713W	719W	725W	731W	738W
	Module Efficiency STC (%)	27.58%	27.82%	28.07%	28.31%	28.55%

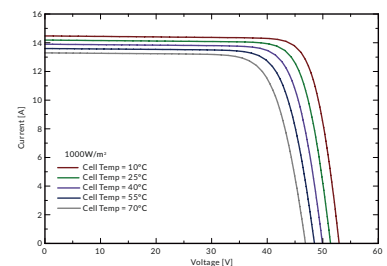
PACKING CONFIGURATION

Container	20'GP	40'HQ
Pieces per pallet	36	36
Pallets per container	5	20
Pieces per container	180	720

I-V CURVE



LNVU-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 ~+3%

BIFACIALITY COEFFICIENT

φVoc / Tolerance ±5%	99%
φIsc / Tolerance ±10%	80%
φPmax / Tolerance ±10%	80%

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

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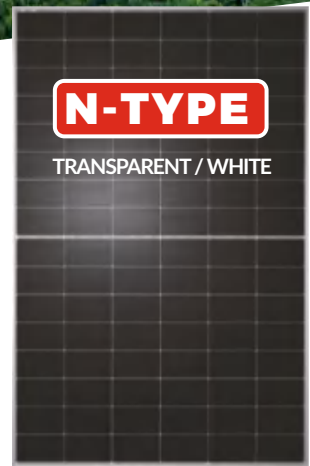


# LUXPOWER® SERIES **N**5



# 435-455W Mono BIFACIAL DG

96 Half-Cell Layout  
G12R N-TYPE Cell



LECO N-TYPE Cell Technology



SMBB Half Cut Cell Technology



Bifacial Cell Module Technologies



Excellent Anti-PID Low LID Performance

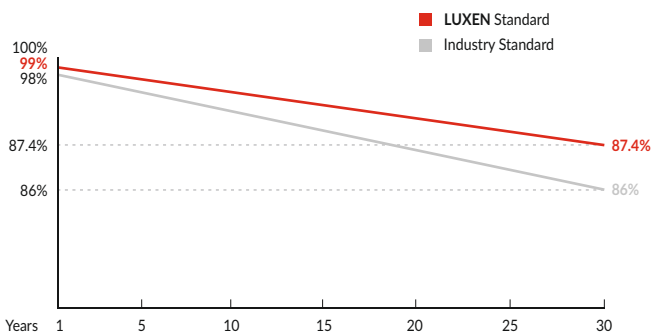


Less Hot Spot Shading Effects



Higher Power Output Lower BOS & LCOE

## Linear Performance Warranty



\*

## Insured By



## Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215:2021 / IEC61730:2023 Standard Quality



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Factory add: No.1 Haiyue Road, Suxitong Technologies & Industries Park, Nantong City, Jiangsu Province, P.R.China

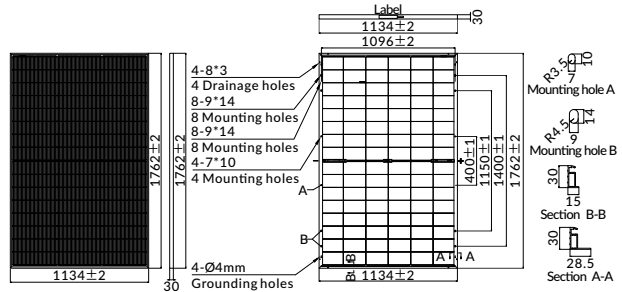
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Made in China

MECHANICAL CHARACTERISTICS

Solar Cells	N-TYPE Mono
No. of Cells	96 (6x16)
Dimensions	1762 x 1134 x 30mm
Weight	24.0kgs
Front/Black 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 <sup>2</sup>
Output Cables	250mm (+) / 350mm (-)
	Length can be customized
Connectors	Jiangsu Tonglin Electric Co., Ltd
	TL-CABLE01S Pro
Mechanical load test	Front 5400Pa / Rear 2400Pa
PV Module Fire Class	Fire safety class according to UL790: Class A



ELECTRICAL PARAMETERS

POWER CLASS	LNDX-435ND		LNDX-440ND		LNDX-445ND		LNDX-450ND		LNDX-455ND	
	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum power (Pmax)±3%	435W	482W	440W	488W	445W	493W	450W	499W	455W	504W
Open Circuit Voltage (Voc)±5%	34.49V	34.63V	34.74V	34.87V	34.97V	35.11V	35.21V	35.34V	35.45V	35.58V
Short Circuit Current (Isc)±5%	15.84A	17.49A	15.90A	17.55A	15.96A	17.62A	16.02A	17.69A	16.08A	17.75A
Voltage at Maximum power (Vmpp)	29.43V		29.65V		29.87V		30.08V		30.29V	
Current Maximum Power (Impp)	14.78A		14.84A		14.90A		14.96A		15.02A	
MODULE EFFICIENCY (%)	21.77%		22.02%		22.27%		22.52%		22.77%	

STC: Irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, AM1.5G BNPI: The front irradiance is 1000W/m<sup>2</sup>, the back irradiance is 135W/m<sup>2</sup>, cell temperature is 25°C, AM1.5G

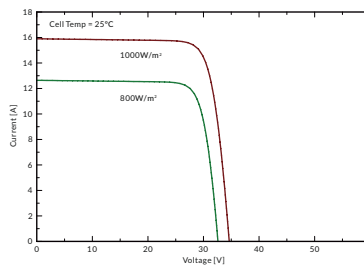
BIFACIAL OUTPUT-REARSIDE POWER GAIN

		LNDX-435ND		LNDX-440ND		LNDX-445ND		LNDX-450ND		LNDX-455ND	
		STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
5%	Maximum power (Pmax)	457W		462W		467W		473W		478W	
	Module Efficiency STC (%)	22.86%		23.12%		23.38%		23.65%		23.91%	
15%	Maximum power (Pmax)	500W		506W		512W		518W		523W	
	Module Efficiency STC (%)	25.04%		25.32%		25.61%		25.90%		26.19%	
25%	Maximum Power (Pmax)	544W		550W		556W		563W		569W	
	Module Efficiency STC (%)	27.21%		27.53%		27.84%		28.15%		28.46%	

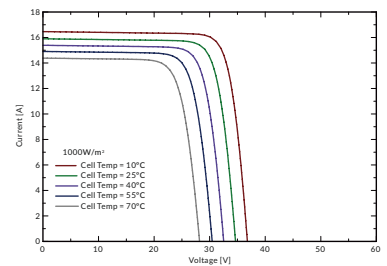
PACKING CONFIGURATION

Container	40'HQ
Pieces per pallet	36
Pallets per container	26
Pieces per container	936

I-V CURVE



LNDX-440ND/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 ~+3%

BIFACIALITY COEFFICIENT

φVoc / Tolerance ±5%	99%
φIsc / Tolerance ±10%	80%
φPmax / Tolerance ±10%	80%

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.

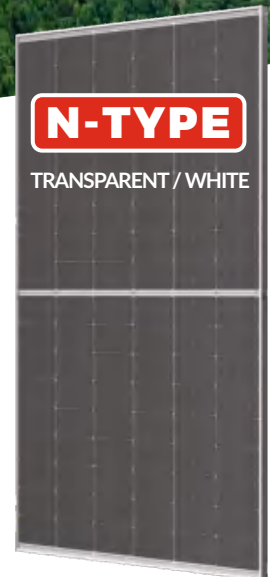
# LUXPOWER® SERIES **N**5



# 490-510W Mono BIFACIAL DG

## 108 Half-Cell Layout

### G12R N-TYPE Cell



LECO N-TYPE Cell Technology



SMBB Half Cut Cell Technology



Bifacial Cell Module Technologies



Excellent Anti-PID Low LID Performance

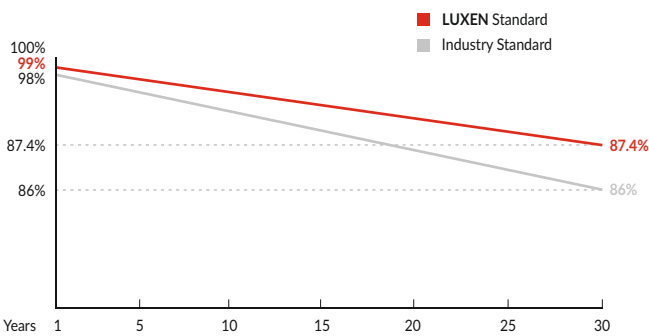


Less Hot Spot Shading Effects



Higher Power Output Lower BOS & LCOE

### Linear Performance Warranty



### Insured By



### Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215:2021 / IEC61730:2023 Standard Quality



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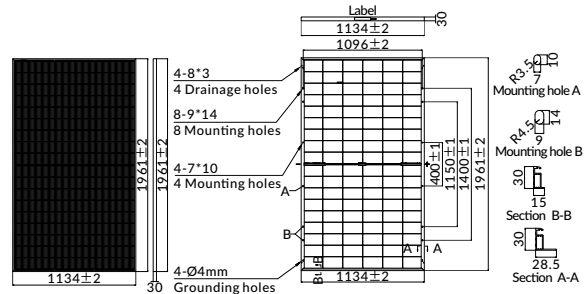
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[www.luxensolar.com](http://www.luxensolar.com)

Made in China

MECHANICAL CHARACTERISTICS

Solar Cells	N-TYPE Mono
No. of Cells	108 (6x18)
Dimensions	1961 x 1134 x 30mm
Weight	27.5kgs
Front/Black 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 <sup>2</sup>
Output Cables	250mm (+) / 350mm (-)
	Length can be customized
Connectors	Jiangsu Tonglin Electric Co., Ltd
	TL-CABLE01S Pro
Mechanical load test	Front 5400Pa / Rear 2400Pa
PV Module Fire Class	Fire safety class according to UL790: Class A



ELECTRICAL PARAMETERS

POWER CLASS	LNDB-490ND		LNDB-495ND		LNDB-500ND		LNDB-505ND		LNDB-510ND	
	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum power (Pmax)±3%	490W	543W	495W	548W	500W	554W	505W	560W	510W	565W
Open Circuit Voltage (Voc)±5%	39.55V	39.69V	39.78V	39.92V	40.00V	40.14V	40.22V	40.37V	40.44V	40.59V
Short Circuit Current (Isc)±5%	15.72A	17.35A	15.78A	17.42A	15.84A	17.49A	15.90A	17.55A	15.96A	17.62A
Voltage at Maximum power (Vmpp)	33.11V		33.31V		33.51V		33.71V		33.91V	
Current Maximum Power (Impp)	14.80A		14.86A		14.92A		14.98A		15.04A	
MODULE EFFICIENCY (%)	22.03%		22.26%		22.48%		22.71%		22.93%	

STC: Irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, AM1.5G BNPI: The front irradiance is 1000W/m<sup>2</sup>, the back irradiance is 135W/m<sup>2</sup>, cell temperature is 25°C, AM1.5G

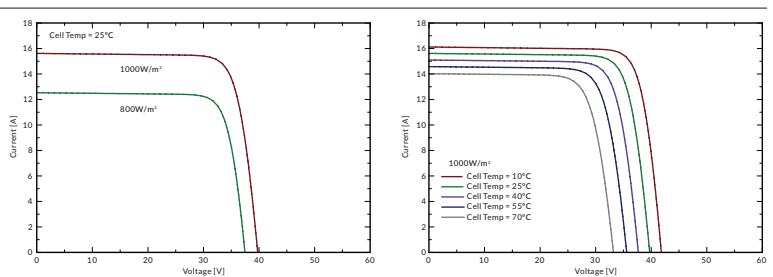
BIFACIAL OUTPUT-REARSIDE POWER GAIN

		LNDB-490ND	LNDB-495ND	LNDB-500ND	LNDB-505ND	LNDB-510ND
5%	Maximum power (Pmax)	515W	520W	525W	530W	536W
	Module Efficiency STC (%)	23.14%	23.37%	23.61%	23.84%	24.08%
15%	Maximum power (Pmax)	564W	569W	575W	581W	587W
	Module Efficiency STC (%)	25.34%	25.60%	25.86%	26.12%	26.37%
25%	Maximum Power (Pmax)	613W	619W	625W	631W	638W
	Module Efficiency STC (%)	27.54%	27.82%	28.11%	28.39%	28.67%

PACKING CONFIGURATION

Container	40'HQ
Pieces per pallet	36
Pallets per container	26
Pieces per container	864

I-V CURVE



OPERATING CHARACTERISTICS

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 DC (IEC)
Maximum Series Fuse Rating	30A
Power Tolerance	0 ~+3%

BIFACIALITY COEFFICIENT

φVoc / Tolerance ±5%	99%
φIsc / Tolerance ±10%	80%
φPmax / Tolerance ±10%	80%

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

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# LUXPOWER® SERIES **N**5



# 605-625W Mono BIFACIAL DG

## 132 Half-Cell Layout

### G12R N-TYPE Cell



LECO N-TYPE Cell Technology



SMBB Half Cut Cell Technology



Bifacial Cell Module Technologies



Excellent Anti-PID Low LID Performance

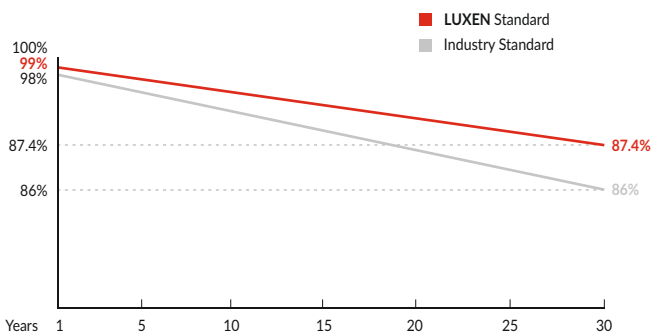


Less Hot Spot Shading Effects



Higher Power Output Lower BOS & LCOE

### Linear Performance Warranty



### Insured By



### Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215:2021 / IEC61730:2023 Standard Quality



LUXEN SOLAR ENERGY CO., LTD.

Manufacturer add: A301, Building 6, Zhongyi Tower, No.59, Wuzhong Avenue, Wuzhong District, Suzhou City, Jiangsu Province, P.R.China

Factory add: No.1 Haiyue Road, Suxitong Technologies & Industries Park, Nantong City, Jiangsu Province, P.R.China

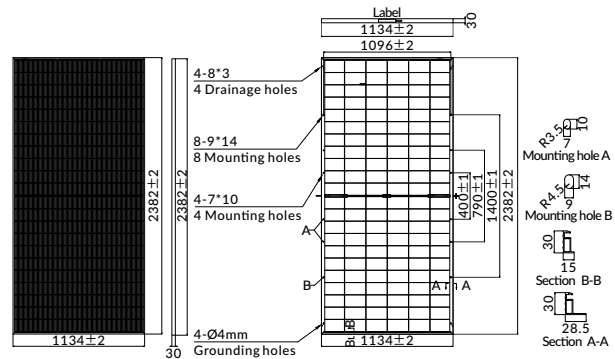
T: +86 512 6708 1572 | F: +86 512 6708 1570 | sales@luxensolar.com

[www.luxensolar.com](http://www.luxensolar.com)

Made in China

MECHANICAL CHARACTERISTICS

Solar Cells	N-TYPE Mono
No. of Cells	132 (6x22)
Dimensions	2382 x 1134 x 30mm
Weight	33.5kgs
Front/Black 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 <sup>2</sup>
Output Cables	250mm (+) / 350mm (-)
	Length can be customized
Connectors	Jiangsu Tonglin Electric Co., Ltd TL-CABLE01S Pro
Mechanical load test	Front 5400Pa / Rear 2400Pa
PV Module Fire Class	Fire safety class according to UL790: Class A



ELECTRICAL PARAMETERS

POWER CLASS	LNDT-605ND		LNDT-610ND		LNDT-615ND		LNDT-620ND		LNDT-625ND	
	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum power (Pmax)±3%	605W	670W	610W	676W	615W	681W	620W	687W	625W	693W
Open Circuit Voltage (Voc)±5%	48.75V	48.90V	48.94V	49.10V	49.13V	49.29V	49.32V	49.49V	49.50V	49.68V
Short Circuit Current (Isc)±5%	15.74A	17.38A	15.80A	17.44A	15.86A	17.51A	15.92A	17.58A	15.98A	17.64A
Voltage at Maximum power (Vmpp)	40.82V		40.99V		41.16V		41.33V		41.50V	
Current Maximum Power (Impp)	14.82A		14.88A		14.94A		15.00A		15.06A	
MODULE EFFICIENCY (%)	22.40%		22.58%		22.77%		22.95%		23.14%	

STC: Irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, AM1.5G BNPI: The front irradiance is 1000W/m<sup>2</sup>, the back irradiance is 135W/m<sup>2</sup>, cell temperature is 25°C, AM1.5G

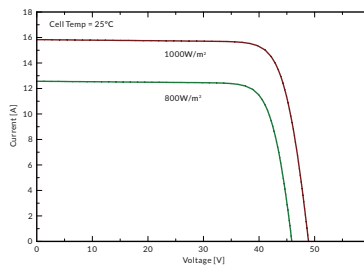
BIFACIAL OUTPUT-REARSIDE POWER GAIN

		LNDT-605ND		LNDT-610ND		LNDT-615ND		LNDT-620ND		LNDT-625ND	
		STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
5%	Maximum power (Pmax)	635W		641W		646W		651W		656W	
	Module Efficiency STC (%)	23.52%		23.71%		23.91%		24.10%		24.29%	
15%	Maximum power (Pmax)	696W		702W		707W		713W		719W	
	Module Efficiency STC (%)	25.76%		25.97%		26.18%		26.40%		26.61%	
25%	Maximum Power (Pmax)	756W		763W		769W		775W		781W	
	Module Efficiency STC (%)	28.00%		28.23%		28.46%		28.69%		28.92%	

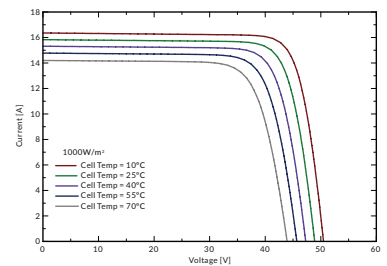
PACKING CONFIGURATION

Container	40'HQ
Pieces per pallet	36
Pallets per container	16
Pieces per container	576

I-V CURVE



LNDT-610ND/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 ~+3%

BIFACIALITY COEFFICIENT

φVoc / Tolerance ±5%	99%
φIsc / Tolerance ±10%	80%
φPmax / Tolerance ±10%	80%

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

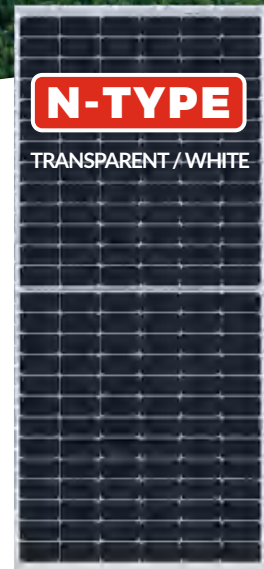
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# LUXPOWER® SERIES **N**5

## 620-640W Mono BIFACIAL DG

### 156 Half-Cell Layout

### M10 N-TYPE Cell



LECO N-TYPE Cell Technology



SMBB Half Cut Cell Technology



Bifacial Cell Module Technologies



Excellent Anti-PID Low LID Performance

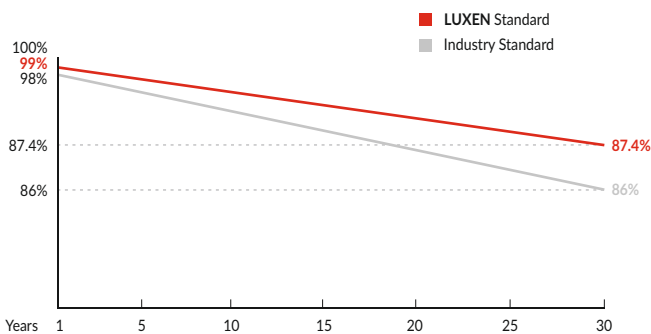


Less Hot Spot Shading Effects



Higher Power Output Lower BOS & LCOE

### Linear Performance Warranty



### Insured By



### Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215:2021 / IEC61730:2023 Standard Quality



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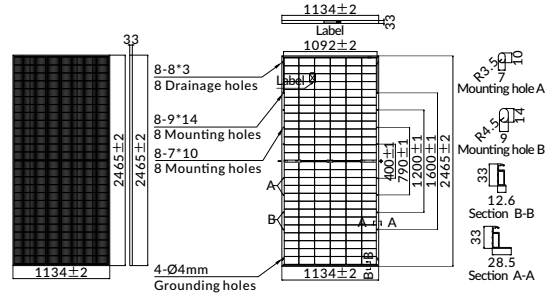
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Made in China

MECHANICAL CHARACTERISTICS

Solar Cells	N-TYPE Mono
No. of Cells	156 (6x26)
Dimensions	2465 x 1134 x 33mm
Weight	34.8kgs
Front/Black 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 <sup>2</sup>
Output Cables	250mm (+) / 350mm (-)
	Length can be customized
Connectors	Jiangsu Tonglin Electric Co., Ltd
	TL-CABLE01S Pro
Mechanical load test	Front 5400Pa / Rear 2400Pa
PV Module Fire Class	Fire safety class according to UL790: Class A



ELECTRICAL PARAMETERS

POWER CLASS	LNVH-620ND		LNVH-625ND		LNVH-630ND		LNVH-635ND		LNVH-640ND	
	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum power (Pmax)±3%	620W	687W	625W	693W	630W	698W	635W	704W	640W	709W
Open Circuit Voltage (Voc)±5%	55.64V	56.02V	55.75V	56.17V	55.87V	56.32V	55.98V	56.46V	56.09V	56.61V
Short Circuit Current (Isc)±5%	14.18A	15.65A	14.25A	15.73A	14.32A	15.81A	14.39A	15.89A	14.46A	15.96A
Voltage at Maximum power (Vmpp)	46.03V		46.16V		46.29V		46.42V		46.55V	
Current Maximum Power (Impp)	13.47A		13.54A		13.61A		13.68A		13.75A	
MODULE EFFICIENCY (%)	22.18%		22.36%		22.54%		22.72%		22.90%	

STC: Irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, AM1.5G BNPI: The front irradiance is 1000W/m<sup>2</sup>, the back irradiance is 135W/m<sup>2</sup>, cell temperature is 25°C, AM1.5G

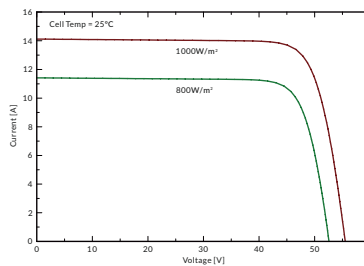
BIFACIAL OUTPUT-REARSIDE POWER GAIN

5%	Maximum power (Pmax)	651W	656W	662W	667W	672W
	Module Efficiency STC (%)	23.29%	23.48%	23.66%	23.85%	24.04%
15%	Maximum power (Pmax)	713W	719W	725W	730W	736W
	Module Efficiency STC (%)	25.51%	25.71%	25.92%	26.12%	26.33%
25%	Maximum Power (Pmax)	775W	781W	788W	794W	800W
	Module Efficiency STC (%)	27.73%	27.95%	28.17%	28.40%	28.62%

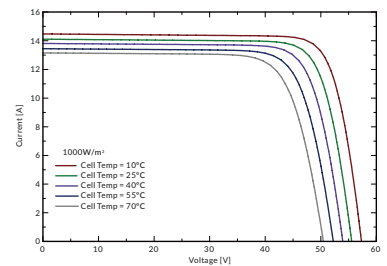
PACKING CONFIGURATION

Container	40'HQ
Pieces per pallet	33
Pallets per container	16
Pieces per container	528

I-V CURVE



LNVH-620ND/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 ~+3%

BIFACIALITY COEFFICIENT

φVoc / Tolerance ±5%	99%
φIsc / Tolerance ±10%	80%
φPmax / Tolerance ±10%	80%

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

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