

CNB POWER

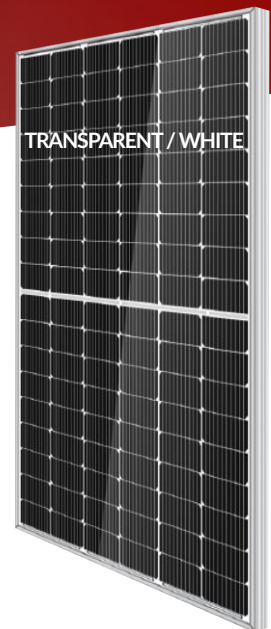
Quality Maker

CNBPOWER® SERIES 5

390-410W Mono BIFACIAL DG

108 Half-Cell Layout

M10/182mm Cell



Bifacial Cell
Module Technologies

Ga

Gallium-doped Technology



Half Cut Cell Technology

anti
PID
LID

Anti-PID
Low LID
Performance

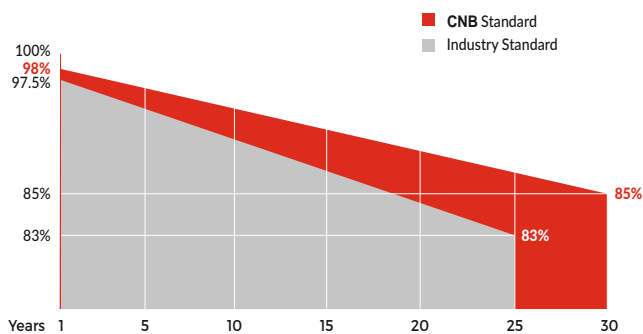


Less Hot Spot
Shading Effects



Enduring High
Reliability & Performance

Linear performance Warranty



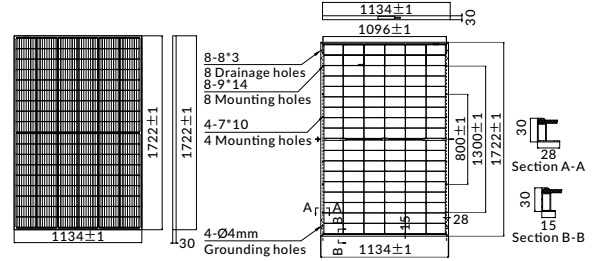
Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215/IEC61730 Standard quality



MECHANICAL CHARACTERISTICS

Solar Cells	Mono
No. of Cells	108 (6x18)
Dimensions	1722 x 1134 x 30mm
Weight	23.5kg
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 (-) Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa



ELECTRICAL PARAMETERS

POWER CLASS	LNVB-390MD	LNVB-395MD	LNVB-400MD	LNVB-405MD	LNVB-410MD
	STC	STC	STC	STC	STC
Maximum power (Pmax)	390W	395W	400W	405W	410W
Open Circuit Voltage (Voc)	43.67V	43.92V	44.17V	44.42V	44.66V
Short Circuit Current (Isc)	11.61A	11.68A	11.75A	11.82A	11.89A
Voltage at Maximum power (Vmpp)	36.65V	36.88V	37.11V	37.33V	37.55V
Current Maximum Power (Impp)	10.64A	10.71A	10.78A	10.85A	10.92A
MODULE EFFICIENCY (%)	19.97%	20.23%	20.48%	20.74%	21.00%

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

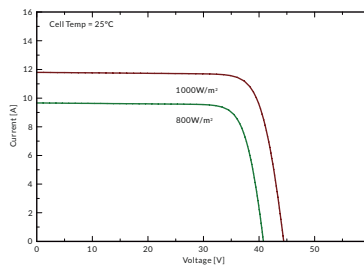
BIFACIAL OUTPUT-REAR SIDE POWER GAIN

		LNVB-390MD	LNVB-395MD	LNVB-400MD	LNVB-405MD	LNVB-410MD
		5%	Maximum power (Pmax)	410W	415W	420W
	Module Efficiency STC (%)	20.97%	21.24%	21.51%	21.78%	22.05%
15%	Maximum power (Pmax)	449W	454W	460W	466W	472W
	Module Efficiency STC (%)	22.97%	23.26%	23.56%	23.85%	24.15%
25%	Maximum Power (Pmax)	488W	494W	500W	506W	513W
	Module Efficiency STC (%)	24.96%	25.28%	25.60%	25.93%	26.25%

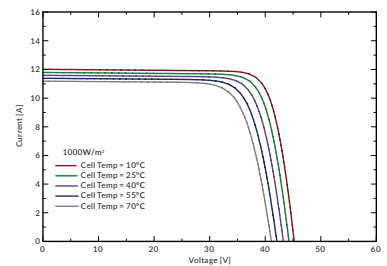
PACKING CONFIGURATION

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

I-V CURVE



LNVB-405MD/I-V



OPERATING CHARACTERISTICS

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	0/+5W

TEMPERATURE CHARACTERISTICS

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.32%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	+0.046%/°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. CNB SOLAR reserves the right to modify the information any time without prior notice.