

CNBPOWER® SERIES 5

570-590W Mono BIFACIAL DG

156 Half-Cell Layout

M10/182mm Cell



Bifacial Cell Module Technologies



Gallium-doped Technology



Half Cut Cell Technology



Anti-PID Low LID Performance

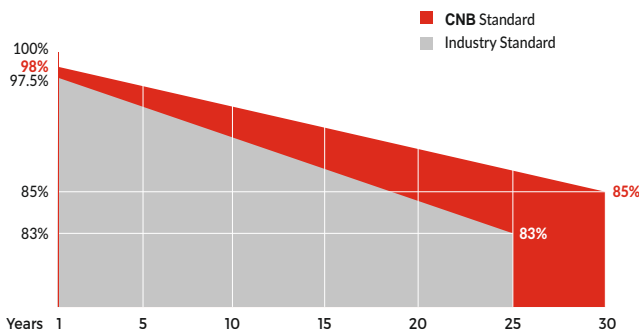


Less Hot Spot Shading Effects



Enduring High Reliability & Performance

Linear performance Warranty



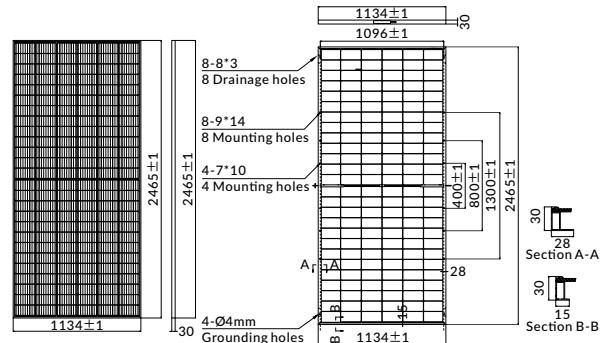
Comprehensive Certificates

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



MECHANICAL CHARACTERISTICS

Solar Cells	Mono
No. of Cells	156 (6x26)
Dimensions	2465 x 1134 x 30mm
Weight	34.5kg
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	LN VH-570MD	LN VH-575MD	LN VH-580MD	LN VH-585MD	LN VH-590MD
	STC	STC	STC	STC	STC
Maximum power (Pmax)	570W	575W	580W	585W	590W
Open Circuit Voltage (Voc)	50.88V	51.02V	51.15V	51.29V	51.42V
Short Circuit Current (Isc)	14.18A	14.25A	14.32A	14.39A	14.46A
Voltage at Maximum power (Vmpp)	42.89V	43.04V	43.19V	43.33V	43.48V
Current Maximum Power (Impp)	13.29A	13.36A	13.43A	13.50A	13.57A
MODULE EFFICIENCY (%)	20.39%	20.57%	20.75%	20.93%	21.11%

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

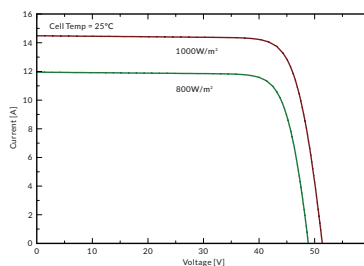
BIFACIAL OUTPUT-REARSIDE POWER GAIN

		LN VH-570MD	LN VH-575MD	LN VH-580MD	LN VH-585MD	LN VH-590MD
5%	Maximum power (Pmax)	599W	604W	609W	614W	620W
	Module Efficiency STC (%)	21.41%	21.60%	21.79%	21.97%	22.16%
15%	Maximum power (Pmax)	656W	661W	667W	673W	679W
	Module Efficiency STC (%)	23.45%	23.66%	23.86%	24.07%	24.27%
25%	Maximum Power (Pmax)	713W	719W	725W	731W	738W
	Module Efficiency STC (%)	25.49%	25.71%	25.94%	26.16%	26.38%

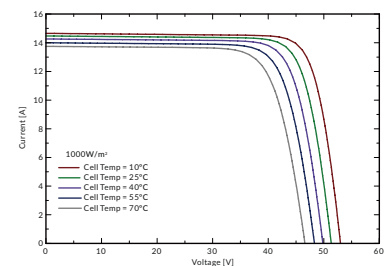
PACKING CONFIGURATION

	20'GP	40'HQ
Container	20'GP	40'HQ
Pieces per pallet	36	36
Pallets per container	4	16
Pieces per container	144	576

I-V CURVE



LN VH-590MD/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.