

CNB POWER

Quality Maker

CNBPOWER® SERIES 5



575-595W Mono FULL BLACK
156 Half-Cell Layout
M10/182mm Cell



Full Black Appearance
for Aesthetic Effect

Ga

Gallium-doped Technology



Half Cut Cell Technology

anti
PID
LID

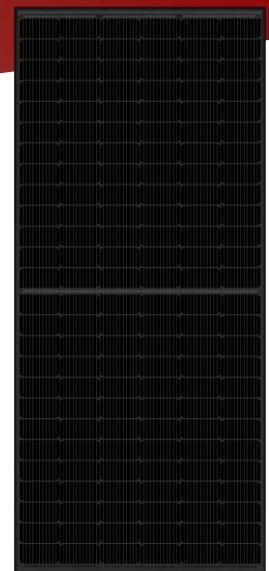
Anti-PID
Low LID
Performance



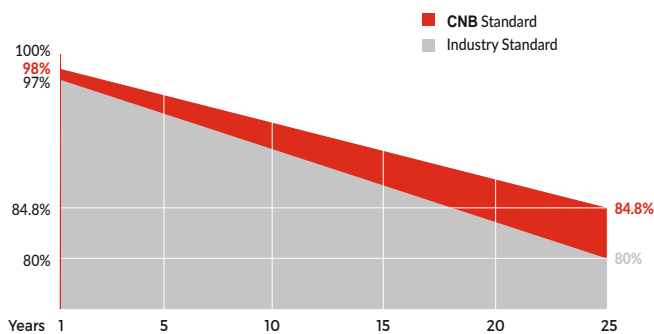
Less Hot Spot
Shading Effects



Ideal for Residential
Rooftop Application



Linear performance Warranty



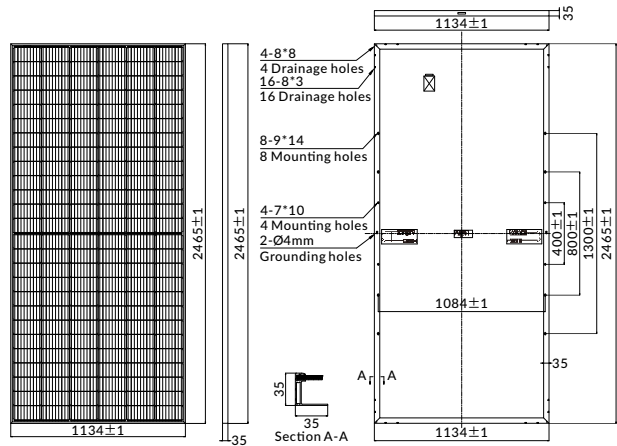
Comprehensive Certificates

- 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 35mm
Weight	30.0kg
Front Glass	3.2mm coated tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 by pass diodes)
	4.0mm ²
Output Cables	300mm (+) / 300mm (-)
	Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa



ELECTRICAL PARAMETERS

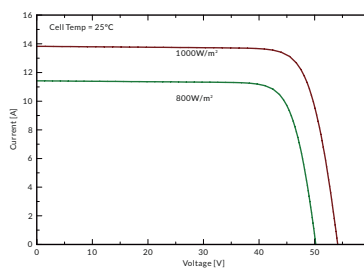
POWER CLASS	LNVH-575M		LNVH-580M		LNVH-585M		LNVH-590M		LNVH-595M	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	575W	437W	580W	441W	585W	445W	590W	449W	595W	453W
Open Circuit Voltage (Voc)	53.50V	49.25V	53.62V	49.47V	53.75V	49.69V	53.88V	49.91V	54.00V	50.13V
Short Circuit Current (Isc)	13.59A	11.27A	13.66A	11.31A	13.73A	11.35A	13.80A	11.39A	13.87A	11.43A
Voltage at Maximum power (Vmpp)	45.31V	41.03V	45.45V	41.25V	45.60V	41.47V	45.74V	41.69V	45.88V	41.91V
Current Maximum Power (Impp)	12.69A	10.65A	12.76A	10.69A	12.83A	10.73A	12.90A	10.77A	12.97A	10.81A
MODULE EFFICIENCY (%)	20.57%		20.75%		20.93%		21.11%		21.29%	

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

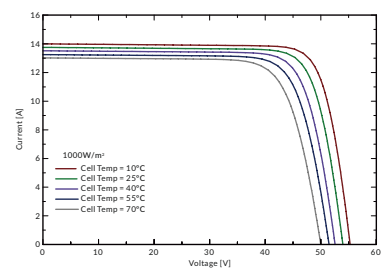
PACKING CONFIGURATION

Container	20'GP	40'HQ
Pieces per pallet	31	31
Pallets per container	4	16
Pieces per container	124	496

I-V CURVE



LNVH-595M/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	-0.36%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	+0.05%/°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.