

MONO TOPCON HALF CELL MODULE

SEMI+SMBB

LNE5N108
420-435 WATT

- HIGHER POWER DENSITY**
- Output up to 435watt on 1.952M²
 - Module efficiency high to 22.3%
 - Gain more solar power per square meter

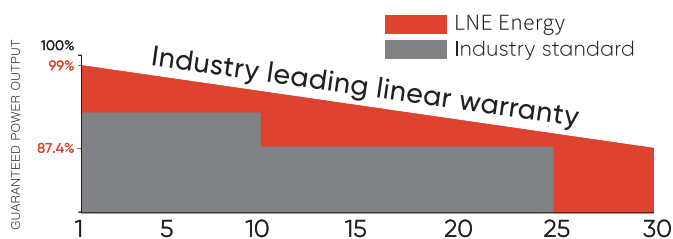
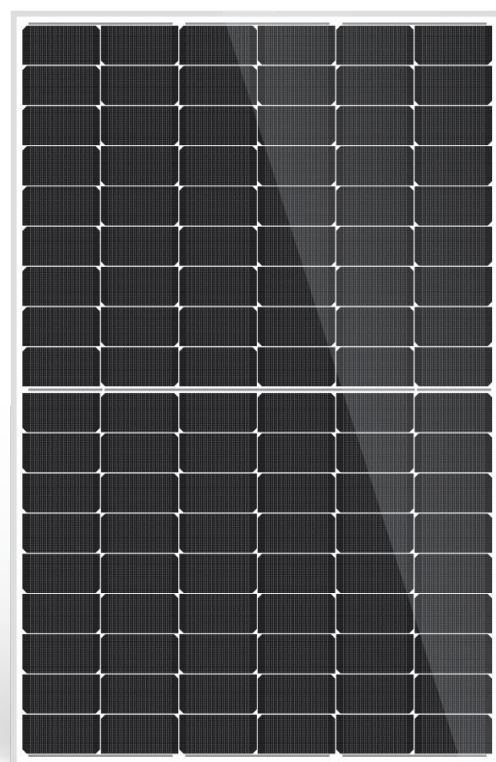
- SEMI+MBB**
- Semi design deduce working temperature of operation and minimize hot-spot risk
 - MBB design deduce cover of busbars and improve current collection ability on windy days
 - Improve the output/watt

- ENHANCED MECHANICAL LOAD**
- Wind load 2400 Pascal
 - Snow load 5400 Pascal

- APPLIED UNDER STRICT CONDITIONS**
- Modules could be applied under ammonia, salt mist, high temperature, high humidity condition

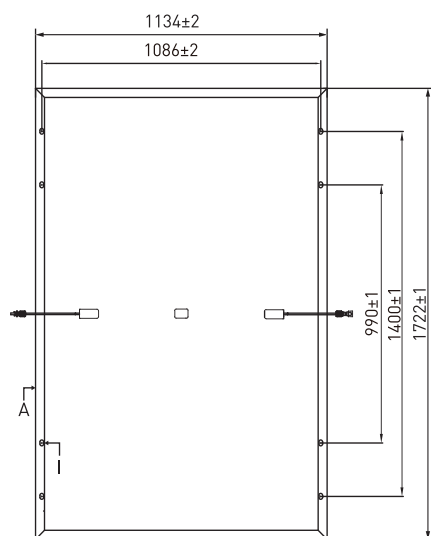
- IP68**
- IP68 junction boxes improve water-proof performance

- EXCELLENT FIRE-PROOF PERFORMANCE**
- Modules have passed anti-fire test

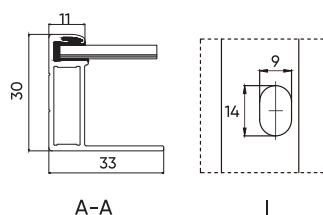


15 years product warranty | 30 years linear performance warranty

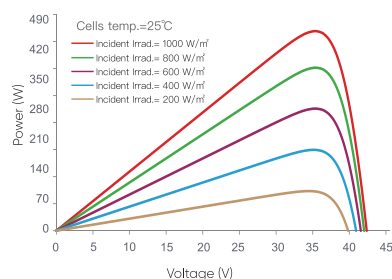
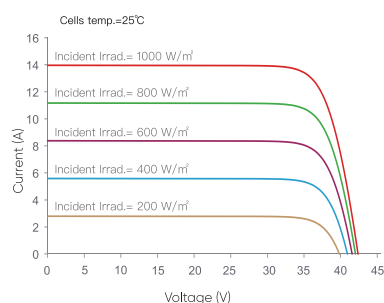




Back Overview



Current-Voltage & Power-Voltage Curves



ELECTRICAL DATA (STC)

Rated Power In Watts-Pmax (Wp)	420	425	430	435
Maximum Power Voltage-Vmpp (V)	31.84	32.05	32.26	32.47
Maximum Power Current-Impp (A)	13.19	13.26	13.33	13.40
Open Circuit Voltage-Voc (V)	38.04	38.23	38.42	38.61
Short Circuit Current-Isc (A)	14	14.08	14.16	14.24
Module Efficiency (%)	21.5%	21.8%	22.0%	22.3%

STC: Irradiation 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

ELECTRICAL DATA (NMOT)

Maximum Power-Pmax (Wp)	318	322	326	330
Maximum Power Voltage-Vmpp (V)	29.95	30.11	30.24	30.39
Maximum Power Current-Impp (A)	10.62	10.7	10.78	10.86
Open Circuit Voltage-Voc (V)	36.2	36.38	36.56	36.74
Short Circuit Current-Isc (A)	11.21	11.27	11.33	11.39

NOCT: Irradiation: 800 W/m², ambient temperature: 20°C, air mass: 1.5, wind speed 1 m/s

MECHANICAL CHARACTERISTICS

Solar Cells	Monocrystalline N-type, MBB
Cell Configuration	108 cells (6 x 9 x 2)
Module Dimensions	1722 x 1134 x 30 mm
Weight	21.5 kg
Glass	High Transmission, Low Iron, Tempered ARC Glass
Back Sheet	White Back-sheet
Frame	Anodized Aluminium Alloy, Silver
J-Box	IP68, 3 bypass diodes
Cables	4.0mm², (+) 380mm, (-) 380mm or customized length
Connector	MC4 Compatible

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44±2°C
Temperature Coefficient of Voc	-0.26% / °C
Temperature Coefficient of Isc	0.05% / °C
Temperature Coefficient of Pmax	-0.30% / °C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	25A

PACKAGING

	40FT (HQ)
Number of Modules Per Container	936
Number of Modules Per Pallet	36
Number of Pallets Per Container	26