

MONO PERC HALF CELL MODULE

SEMI+MBB

LNE5M144
535-550 WATT



HIGHER POWER DENSITY

- Output up to 550watt on 2.584M²
- Module efficiency high to 21.3%
- 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



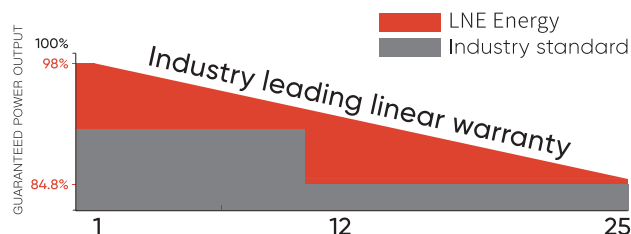
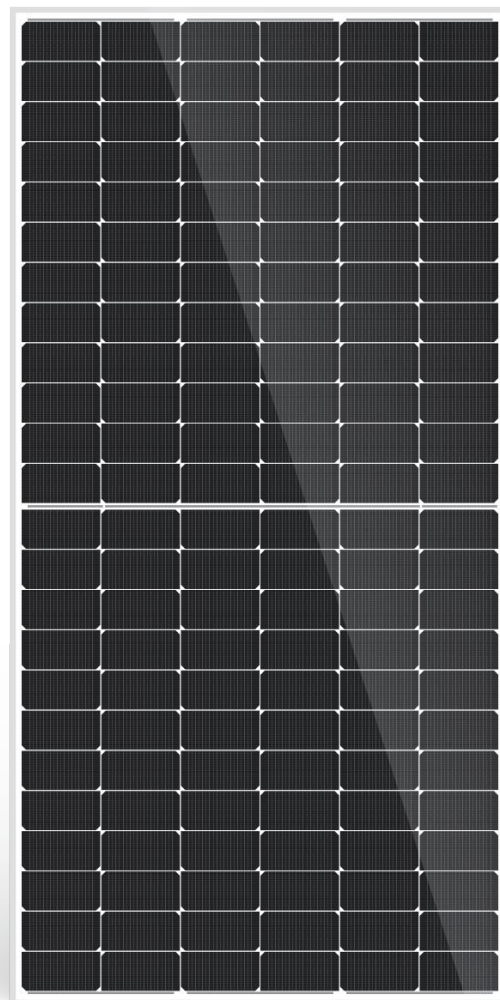
IP68

- IP68 junction boxes improve water-proof performance



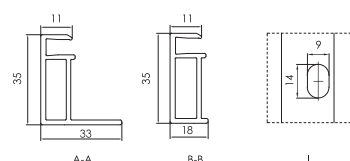
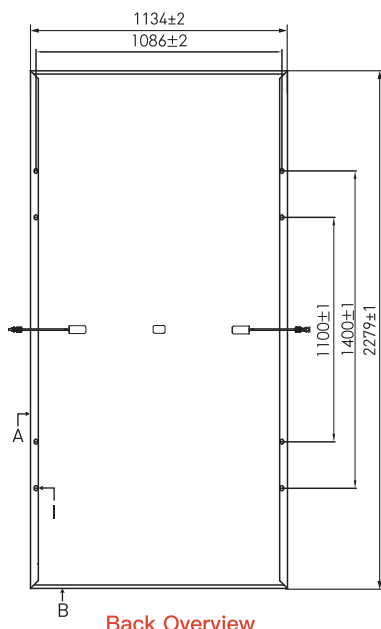
EXCELLENT FIRE-PROOF PERFORMANCE

- Modules have passed anti-fire test

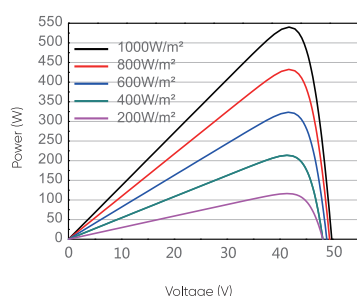
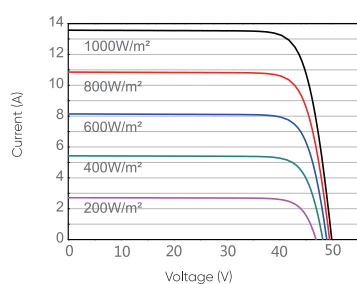


12 years product warranty | 25 years linear performance warranty





Current-Voltage & Power-Voltage Curves



ELECTRICAL DATA (STC)

Rated Power In Watts-Pmax (Wp)	535	540	545	550
Maximum Power Voltage-Vmpp (V)	41.47	41.64	41.81	41.97
Maximum Power Current-Impp (A)	12.90	12.97	13.04	13.10
Open Circuit Voltage-Voc (V)	49.45	49.60	49.75	49.90
Short Circuit Current-Isc (A)	13.79	13.86	13.93	14.00
Module Efficiency (%)	20.70%	20.90%	21.10%	21.30%

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)	404	408	412	416
Maximum Power Voltage-Vmpp (V)	38.78	38.99	39.21	39.43
Maximum Power Current-Impp (A)	10.43	10.47	10.51	10.55
Open Circuit Voltage-Voc (V)	46.31	46.43	46.55	46.68
Short Circuit Current-Isc (A)	11.05	11.09	11.13	11.17

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

MECHANICAL CHARACTERISTICS

Solar Cells	Monocrystalline, MBB
Cell Configuration	144 cells (6 x 12 x 2)
Module Dimensions	2279 x 1134 x 35 mm
Weight	28.0 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	-0.27% / °C
Temperature Coefficient of Isc	0.048% / °C
Temperature Coefficient of Pmax	-0.35% / °C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	25A

PACKAGING

	40FT (HQ)
Number of Modules Per Container	620
Number of Modules Per Pallet	31
Number of Pallets Per Container	20