

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



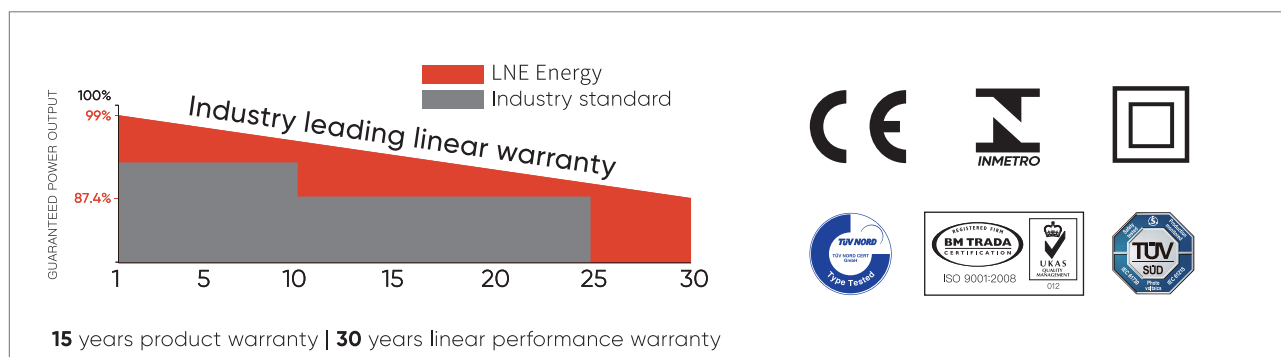
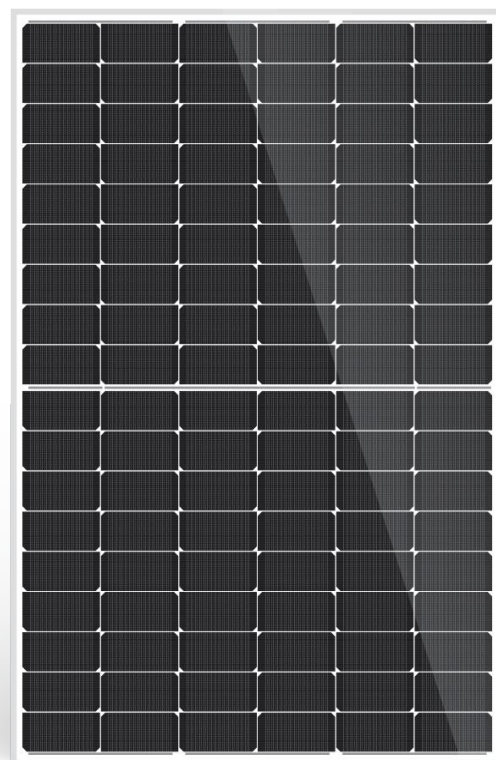
IP68

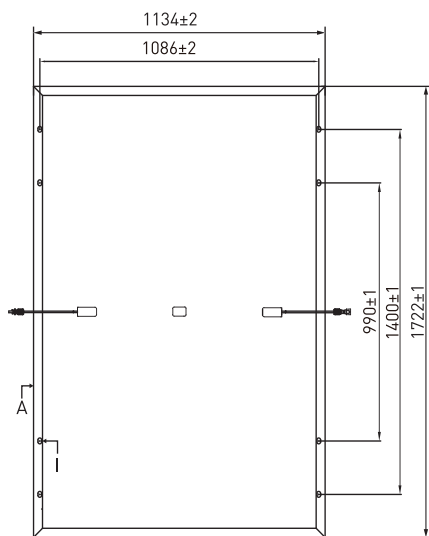
- IP68 junction boxes improve water-proof performance



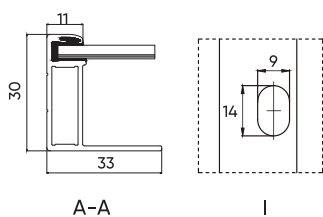
EXCELLENT FIRE-PROOF PERFORMANCE

- Modules have passed anti-fire test

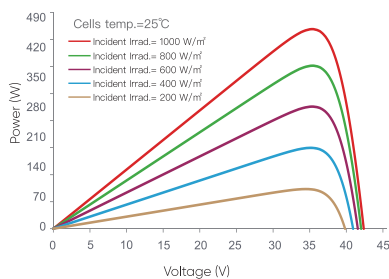
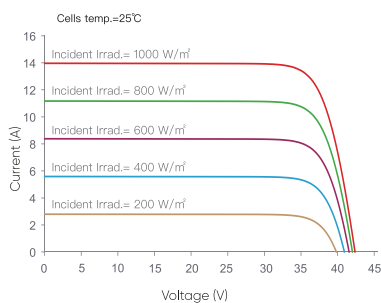




Back Overview



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
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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	4.0mm ² , (+) 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
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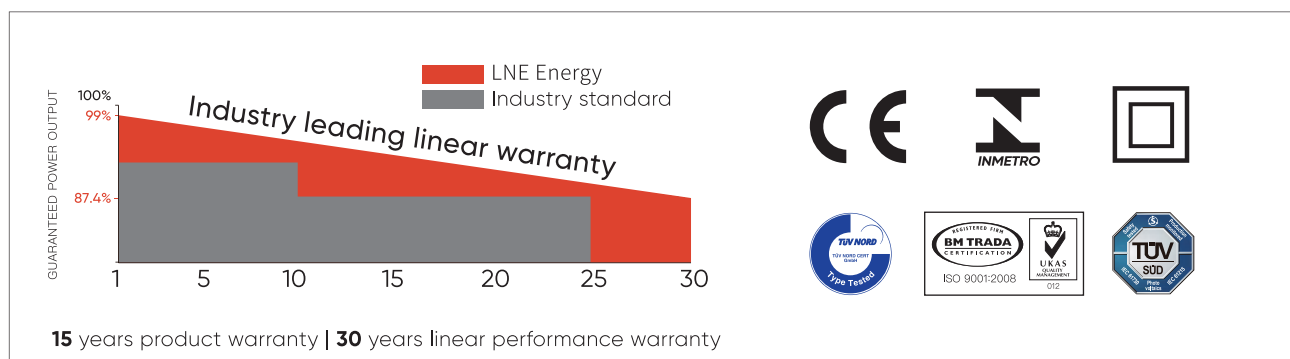
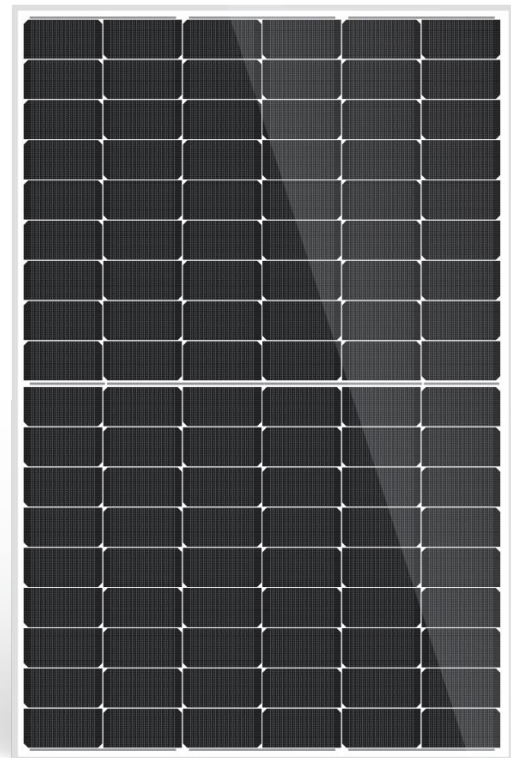
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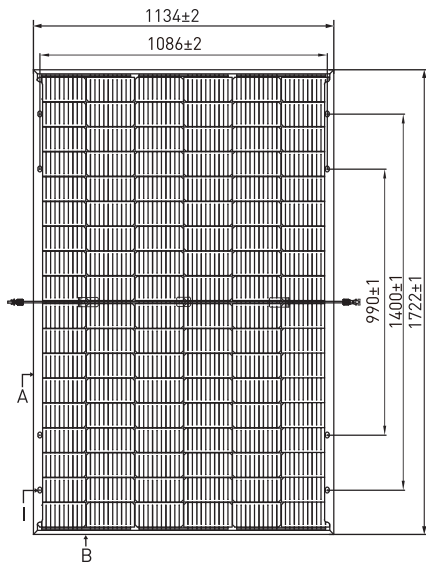
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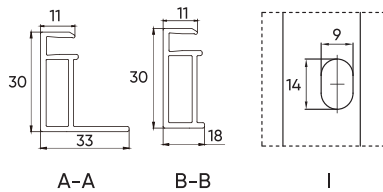
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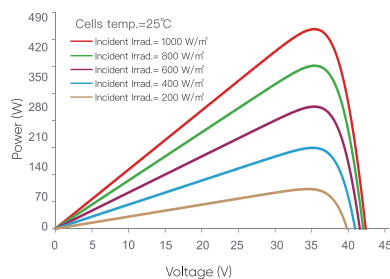
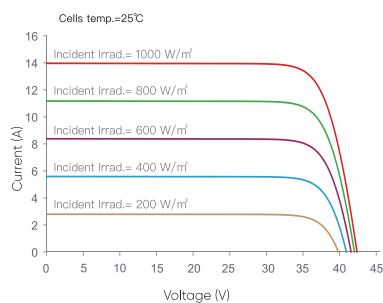




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Electrical Characteristics With Different Rear Side Power Again (Reference To 435w Front)

Pmax gain (%)	5%	10%	15%	20%	25%
Maximum Power (Pmax/W)	457	479	500	522	544
Maximum Power Voltage (Vmpp/V)	32.47	32.47	32.47	32.47	32.47
Maximum Power Current (Impp/A)	14.07	14.74	15.41	16.08	16.75

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	22.0 kg
Glass	1.6mm Tempered ARC Glass
Back Sheet	1.6mm Glass
Frame	Anodized Aluminium Alloy, Silver
J-Box	IP68, 3 bypass diodes
Cables	4.0mm ² , (+) 380mm, (-) 380mm or customized length
Connector	MC4 Compatible

TEMPERATURE & MAXIMUM RATINGS

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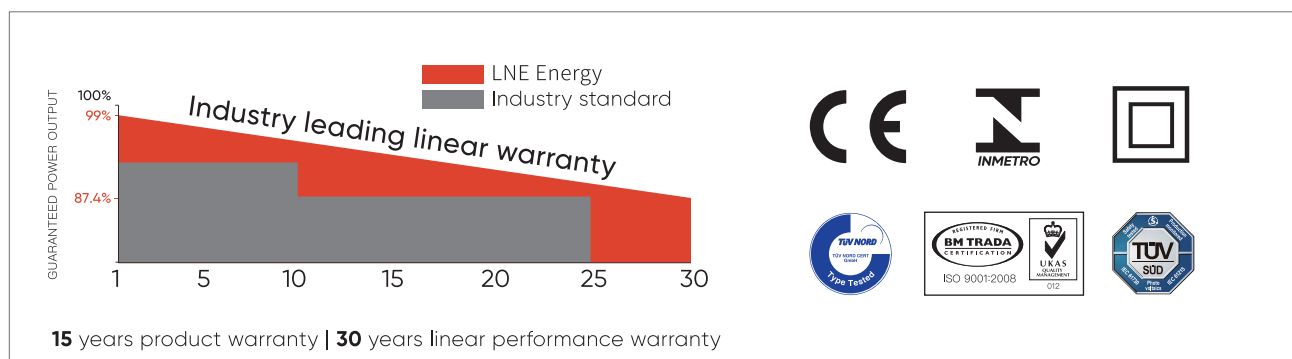
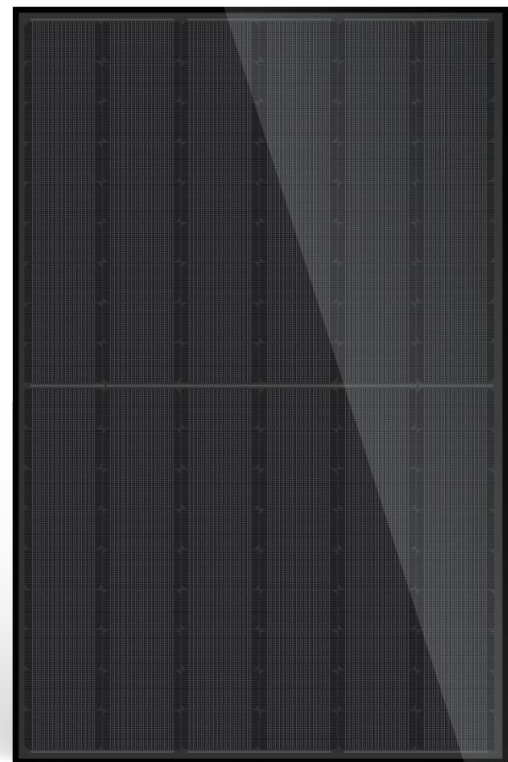
IP68

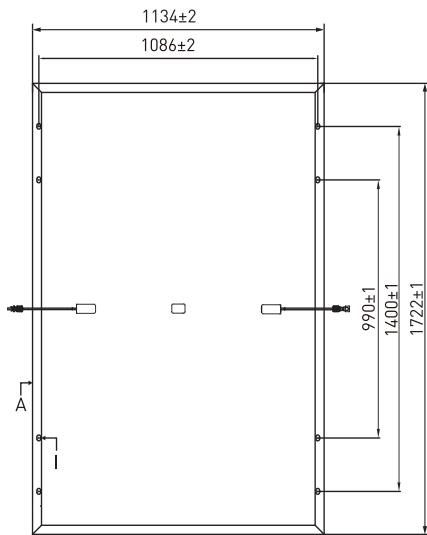
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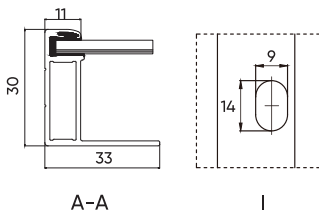
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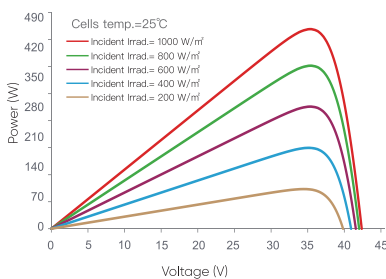
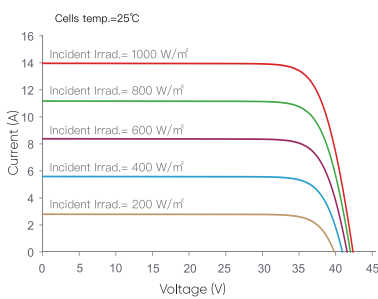




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Current-Voltage & Power-Voltage Curves



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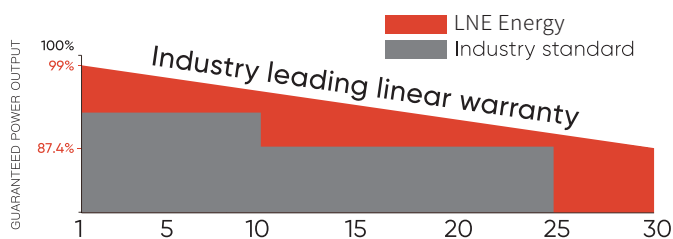
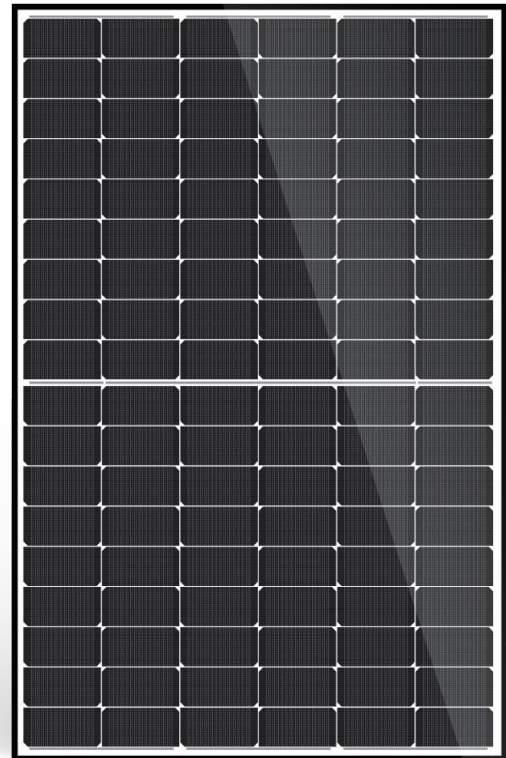
IP68

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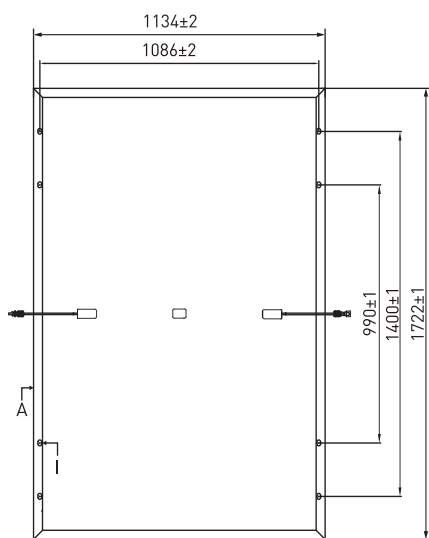
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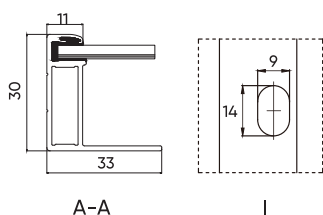


15 years product warranty | 30 years linear performance warranty

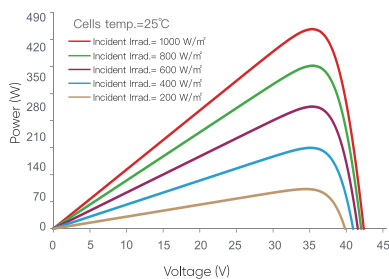
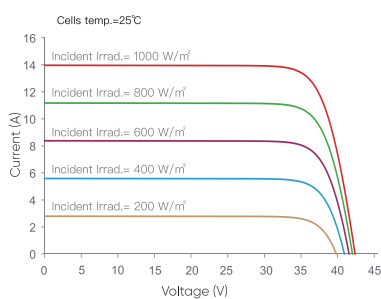




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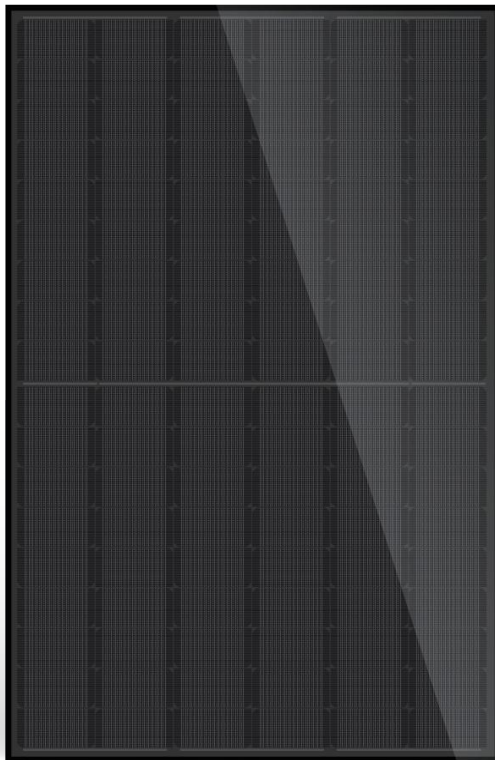
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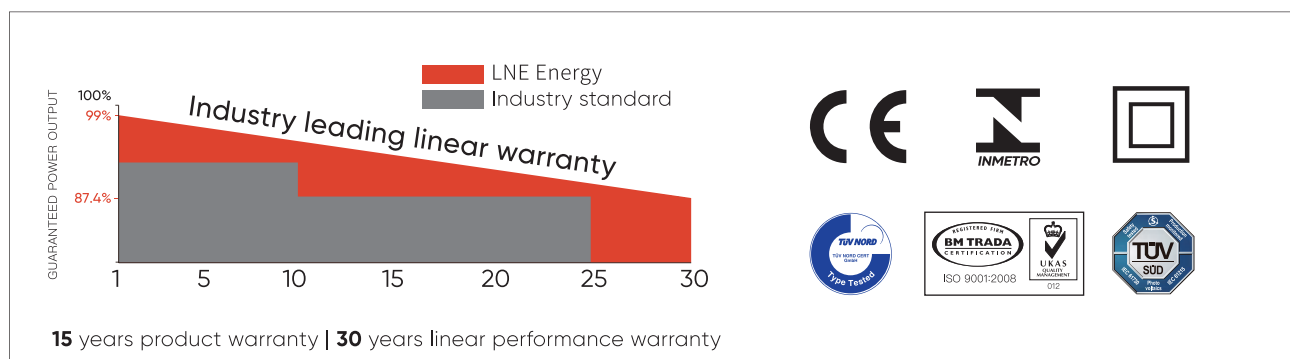
IP68

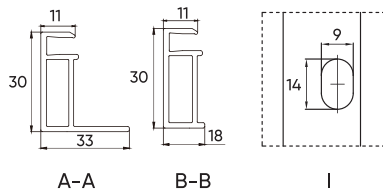
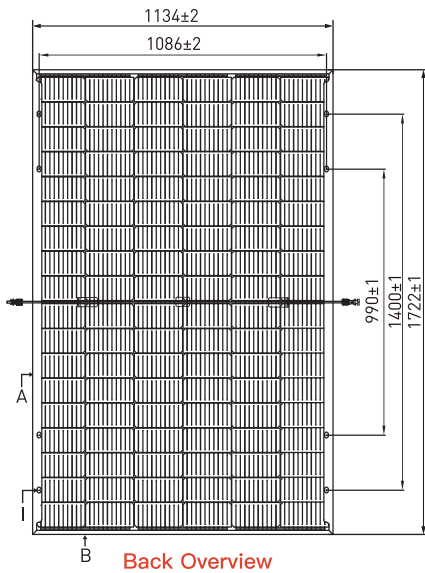
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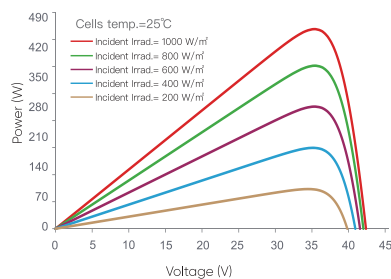
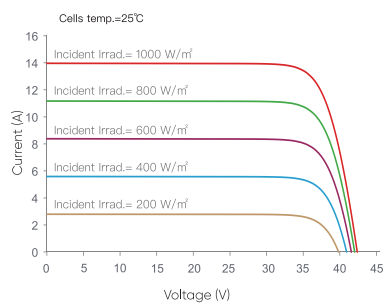
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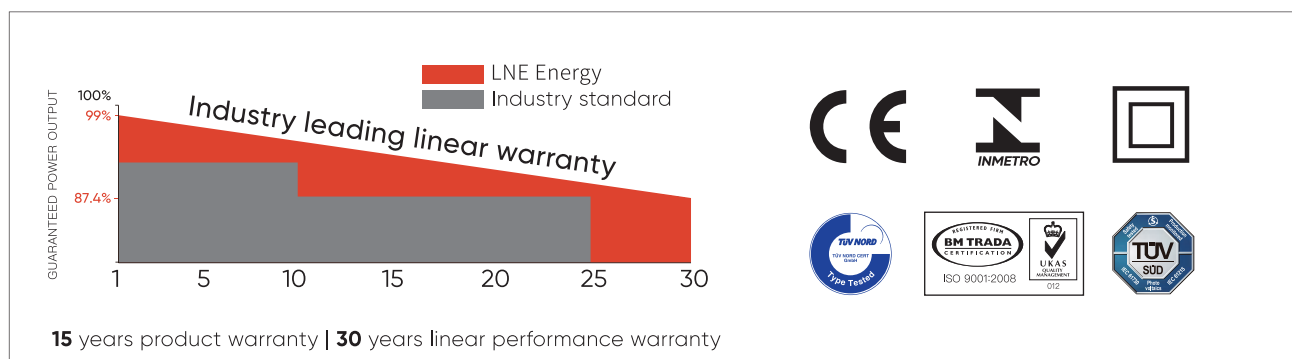
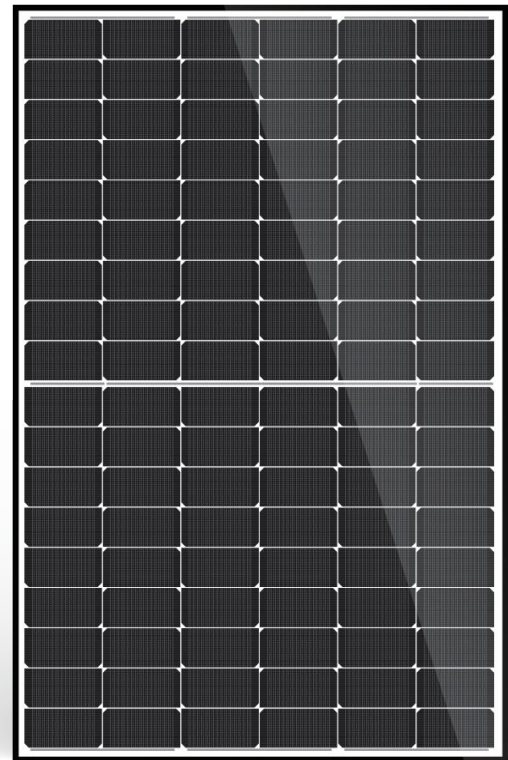
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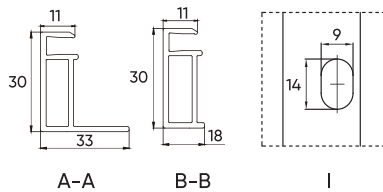
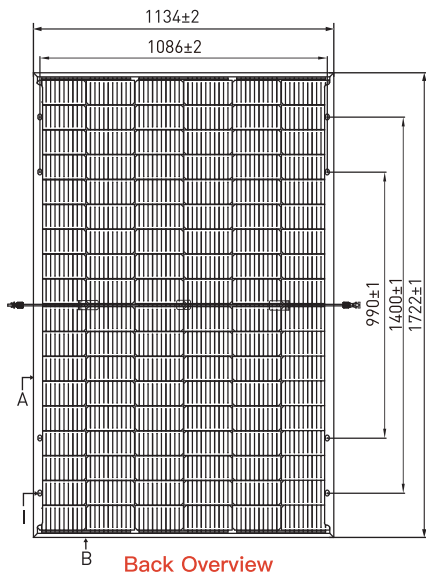
- IP68 junction boxes improve water-proof performance



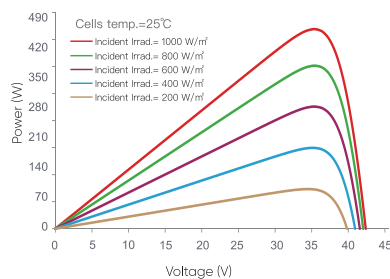
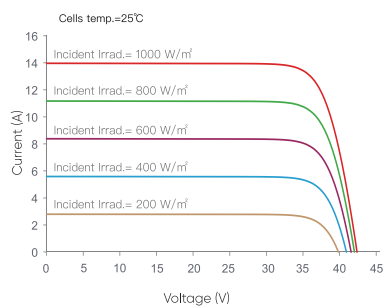
EXCELLENT FIRE-PROOF PERFORMANCE

- Modules have passed anti-fire test





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

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

Electrical Characteristics With Different Rear Side Power Again (Reference To 435w Front)

Pmax gain (%)	5%	10%	15%	20%	25%
Maximum Power (Pmax/W)	457	479	500	522	544
Maximum Power Voltage (Vmpp/V)	32.47	32.47	32.47	32.47	32.47
Maximum Power Current (Impp/A)	14.07	14.74	15.41	16.08	16.75

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	22.0 kg
Glass	1.6mm Tempered ARC Glass
Back Sheet	1.6mm Glass
Frame	Anodized Aluminium Alloy, Black
J-Box	IP68, 3 bypass diodes
Cables	4.0mm ² , (+) 380mm, (-) 380mm or customized length
Connector	MC4 Compatible

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44±2°C
Temperature Coefficient of Voc	-0.25% / °C
Temperature Coefficient of Isc	0.045% / °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

MONO TOPCON HALF CELL MODULE

SEMI+MBB

LNE5N144
565-580 WATT



HIGHER POWER DENSITY

- Output up to 580watt on 2.584M²
- Module efficiency high to 22.44%
- 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



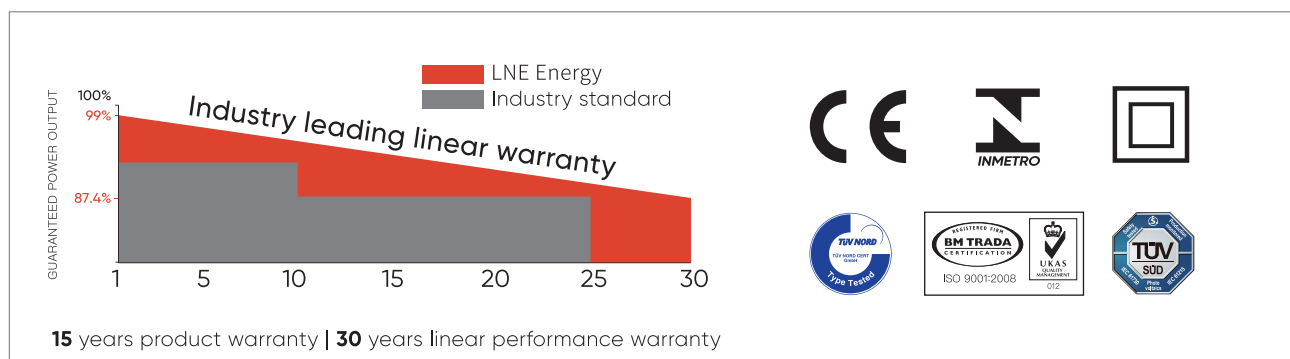
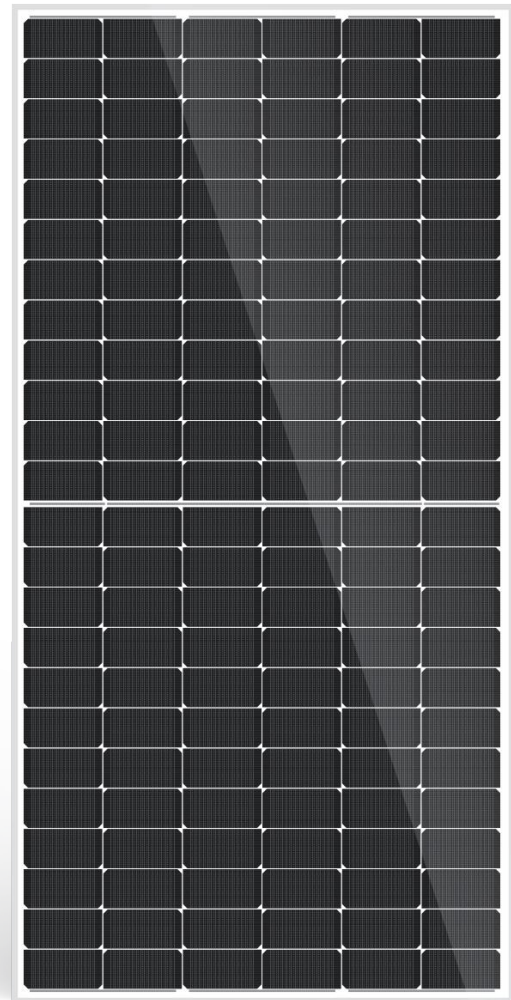
IP68

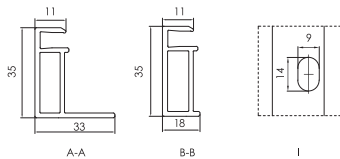
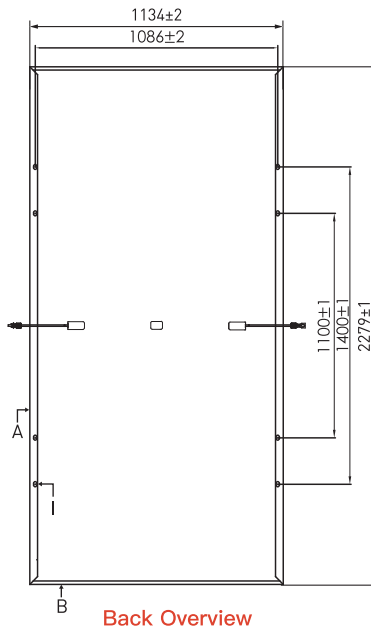
- IP68 junction boxes improve water-proof performance



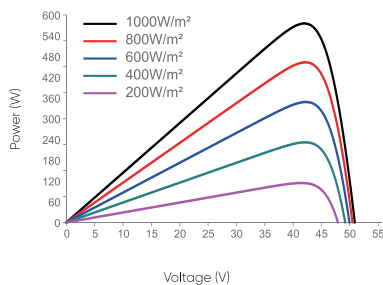
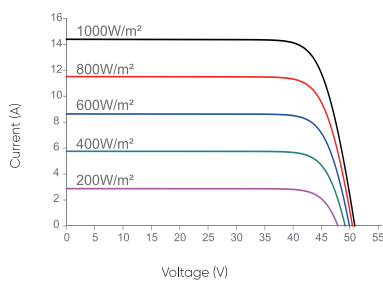
EXCELLENT FIRE-PROOF PERFORMANCE

- Modules have passed anti-fire test





Current-Voltage & Power-Voltage Curves



ELECTRICAL DATA (STC)

Rated Power In Watts-Pmax (Wp)	565	570	575	580
Maximum Power Voltage-Vmpp (V)	42.84	42.99	43.14	43.3
Maximum Power Current-Impp (A)	13.19	13.26	13.33	13.40
Open Circuit Voltage-Voc (V)	50.72	50.97	51.23	51.48
Short Circuit Current-Isc (A)	14.00	14.08	14.16	14.24
Module Efficiency (%)	21.86%	22.06%	22.25%	22.44%

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)	424	429	435	441
Maximum Power Voltage-Vmpp (V)	39.93	40.15	40.32	40.61
Maximum Power Current-Impp (A)	10.62	10.70	10.78	10.86
Open Circuit Voltage-Voc (V)	48.27	48.51	48.75	48.99
Short Circuit Current-Isc (A)	11.21	11.27	11.33	11.39

NMOT: 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	144 cells (6 x 12 x 2)
Module Dimensions	2279 x 1134 x 35 mm
Weight	28 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	4.0mm ² , (+) 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	620
Number of Modules Per Pallet	31
Number of Pallets Per Container	20

BIFACIAL MONO TOPCON HALF CELL MODULE

SEMI+MBB

LNE5N144
565-580 WATT



HIGHER POWER DENSITY

- Output up to 580watt on 2.584M²
- Module efficiency high to 22.44%
- 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



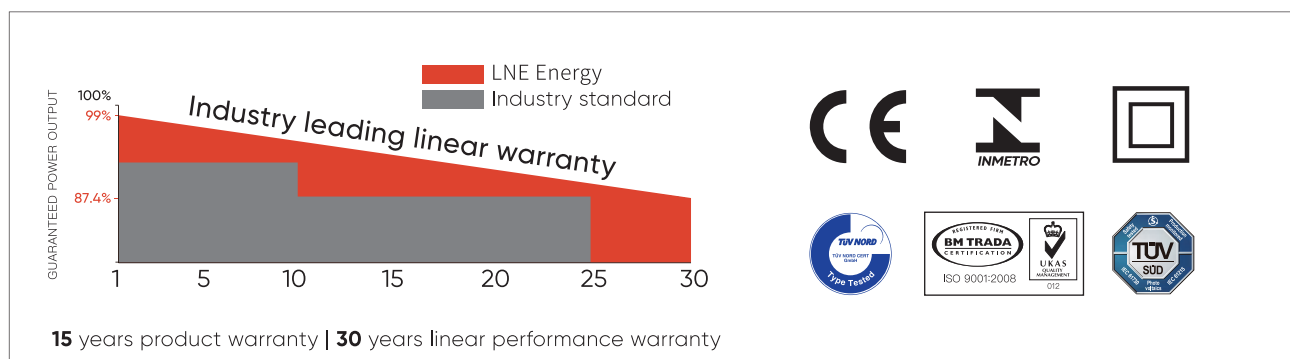
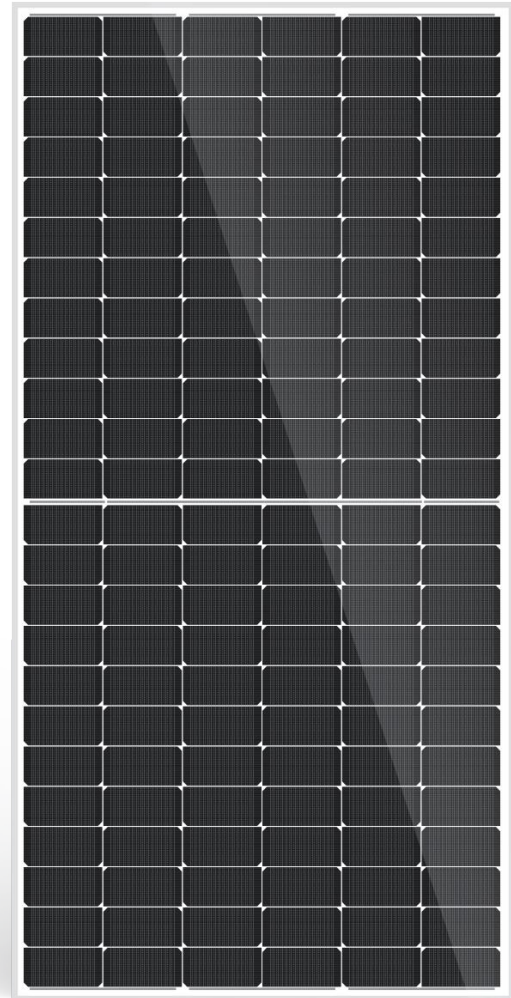
IP68

- IP68 junction boxes improve water-proof performance



EXCELLENT FIRE-PROOF PERFORMANCE

- Modules have passed anti-fire test



ELECTRICAL DATA (STC)

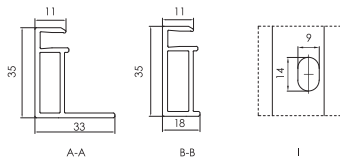
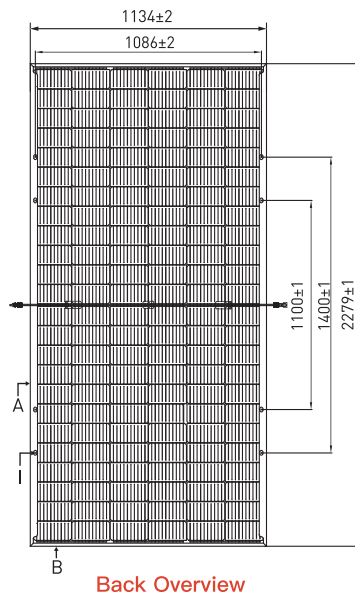
Rated Power In Watts-Pmax (Wp)	565	570	575	580
Maximum Power Voltage-Vmpp (V)	42.84	42.99	43.14	43.3
Maximum Power Current-Impp (A)	13.19	13.26	13.33	13.40
Open Circuit Voltage-Voc (V)	50.72	50.97	51.23	51.48
Short Circuit Current-Isc (A)	14.00	14.08	14.16	14.24
Module Efficiency (%)	21.86%	22.06%	22.25%	22.44%

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

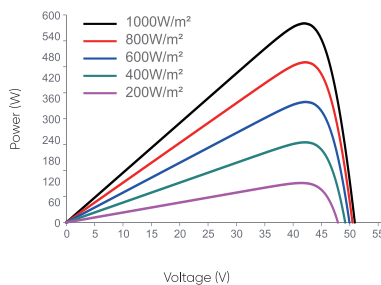
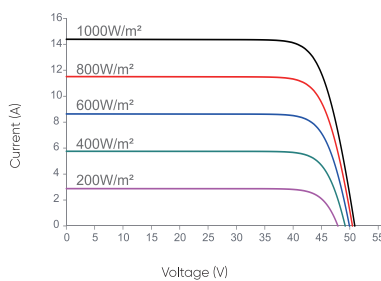
ELECTRICAL DATA (NMOT)

Maximum Power-Pmax (Wp)	424	429	435	441
Maximum Power Voltage-Vmpp (V)	39.93	40.15	40.32	40.61
Maximum Power Current-Impp (A)	10.62	10.70	10.78	10.86
Open Circuit Voltage-Voc (V)	48.27	48.51	48.75	48.99
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



Current-Voltage & Power-Voltage Curves



Electrical Characteristics With Different Rear Side Power Again (Reference To 580w Front)

Pmax gain (%)	5%	10%	15%	20%	25%
Maximum Power (Pmax/W)	609	638	667	696	725
Maximum Power Voltage (Vmpp/V)	43.3	43.3	43.3	43.3	43.3
Maximum Power Current (Impp/A)	14.07	14.74	15.41	16.08	16.75

MECHANICAL CHARACTERISTICS

Solar Cells	Monocrystalline N-type, MBB
Cell Configuration	144 cells (6 x 12 x 2)
Module Dimensions	2279 x 1134 x 35 mm
Weight	32.0 kg
Glass	2.0mm Tempered ARC Glass
Back Sheet	2.0mm Glass
Frame	Anodized Aluminium Alloy, Silver
J-Box	IP68, 3 bypass diodes
Cables	4.0mm ² , (+) 380mm, (-) 380mm or customized length
Connector	MC4 Compatible

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44±2°C
Temperature Coefficient of Voc	-0.25% / °C
Temperature Coefficient of Isc	0.045% / °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	620
Number of Modules Per Pallet	31
Number of Pallets Per Container	20

BIFACIAL MONO TOPCON HALF CELL MODULE

SEMI+MBB

LNE6N132
685-700 WATT



HIGHER POWER DENSITY

- Output up to 700watt on 3.106M²
- Module efficiency high to 22.5%
- 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



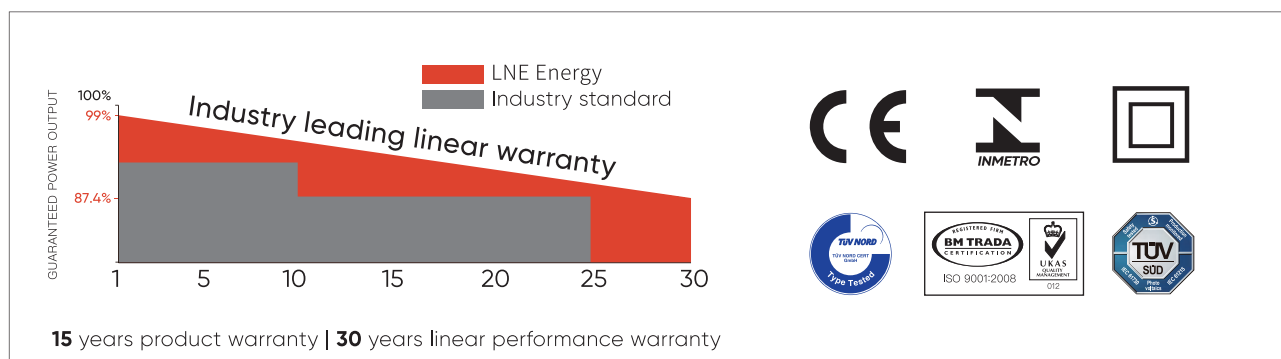
IP68

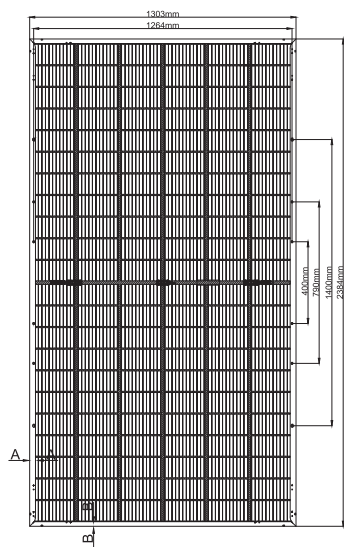
- IP68 junction boxes improve water-proof performance



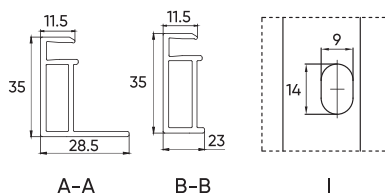
EXCELLENT FIRE-PROOF PERFORMANCE

- Modules have passed anti-fire test

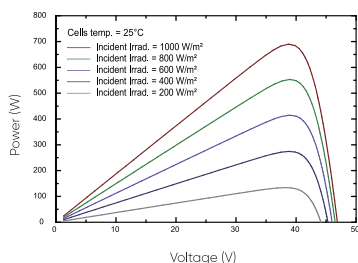
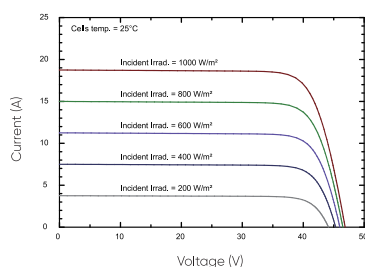




Back Overview



Current-Voltage & Power-Voltage Curves



ELECTRICAL DATA (STC)

Rated Power In Watts-Pmax (Wp)	685	690	695	700
Maximum Power Voltage-Vmpp (V)	39.50	39.70	39.90	40.10
Maximum Power Current-Impp (A)	17.34	17.38	17.42	17.46
Open Circuit Voltage-Voc (V)	47.20	47.40	47.60	47.80
Short Circuit Current-Isc (A)	18.30	18.34	18.38	18.42
Module Efficiency (%)	22.10%	22.20%	22.40%	22.50%

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)	519	523	527	531
Maximum Power Voltage-Vmpp (V)	37.20	37.40	37.60	37.80
Maximum Power Current-Impp (A)	13.96	13.99	14.02	14.05
Open Circuit Voltage-Voc (V)	44.70	44.90	45.10	45.30
Short Circuit Current-Isc (A)	14.78	14.82	14.86	14.90

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

Electrical Characteristics With Different Rear Side Power Again (Reference To 690w Front)

Pmax gain (%)	5%	10%	15%	20%	25%
Maximum Power (Pmax/W)	725	759	794	828	863
Maximum Power Voltage (Vmpp/V)	39.70	39.70	39.70	39.70	39.70
Maximum Power Current (Impp/A)	18.25	19.12	19.99	20.86	21.73

MECHANICAL CHARACTERISTICS

Solar Cells	Monocrystalline N-type, MBB
Cell Configuration	132 cells (6 x 11 x 2)
Module Dimensions	2384 x 1303 x 35 mm
Weight	38.7 kg
Glass	2.0mm Tempered ARC Glass
Back Sheet	2.0mm Glass
Frame	Anodized Aluminium Alloy, Silver
J-Box	IP68, 3 bypass diodes
Cables	4.0mm ² , (+) 380mm, (-) 380mm or customized length
Connector	MC4 Compatible

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44±2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.045%/°C
Temperature Coefficient of Pmax	-0.30% / °C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	35A

PACKAGING

	40FT (HQ)
Number of Modules Per Container	558
Number of Modules Per Pallet	31
Number of Pallets Per Container	18