

MONO PERC HALF CELL MODULE

SEMI+MBB

LNE5M108
400-415 WATT



HIGHER POWER DENSITY

- Output up to 415watt on 1.952M²
- 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



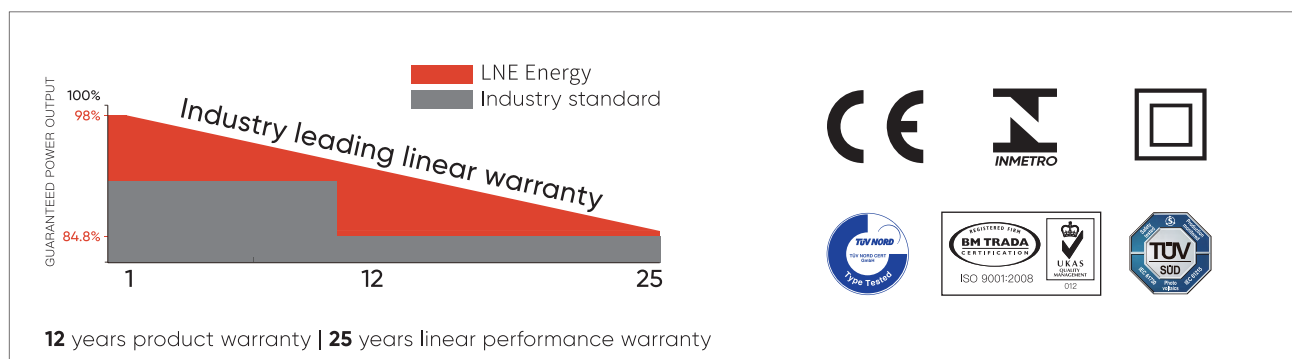
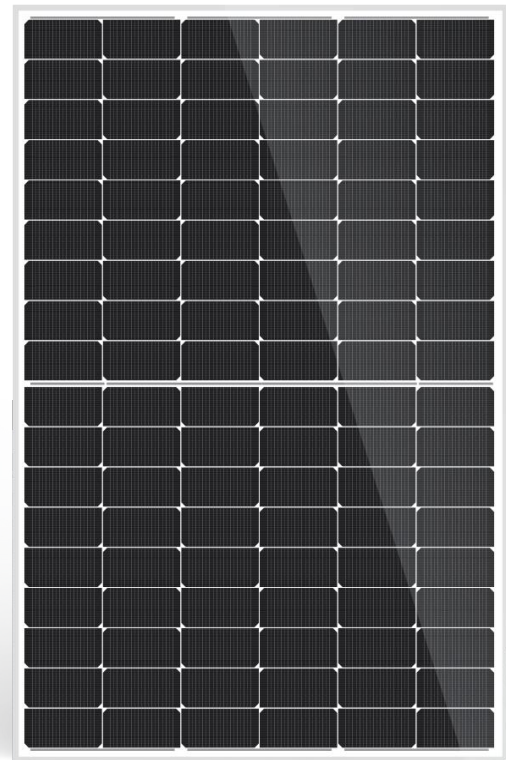
IP68

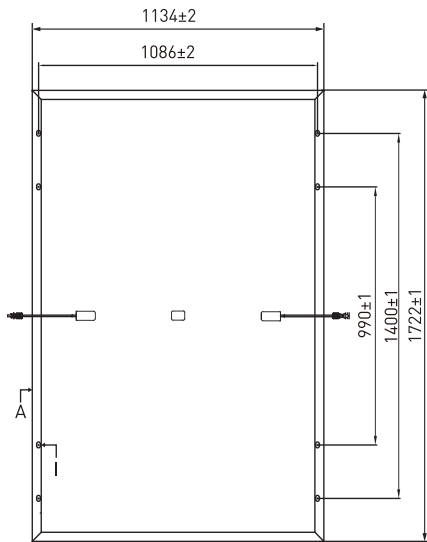
- IP68 junction boxes improve water-proof performance



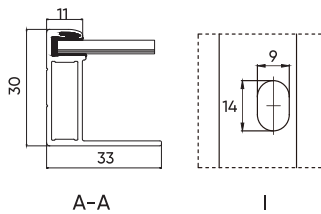
EXCELLENT FIRE-PROOF PERFORMANCE

- Modules have passed anti-fire test

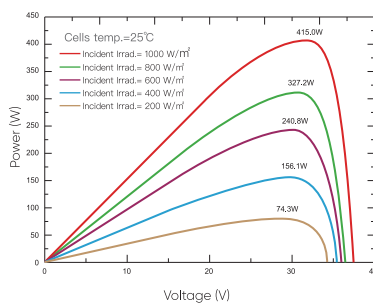
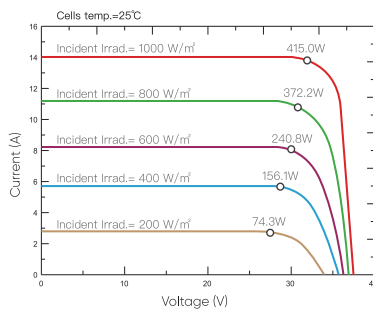




Back Overview



Current–Voltage & Power–Voltage Curves



ELECTRICAL DATA (STC)

Rated Power In Watts–Pmax (Wp)	400	405	410	415
Maximum Power Voltage–Vmpp (V)	31.01	31.23	31.44	31.66
Maximum Power Current–Impp (A)	12.90	12.97	13.04	13.11
Open Circuit Voltage–Voc (V)	37.05	37.20	37.35	37.50
Short Circuit Current–Isc (A)	13.79	13.86	13.93	14.00
Module Efficiency (%)	20.5%	20.7%	21.0%	21.3%

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)	302	306	310	314
Maximum Power Voltage–Vmpp (V)	28.95	29.23	29.50	29.74
Maximum Power Current–Impp (A)	10.43	10.47	10.51	10.55
Open Circuit Voltage–Voc (V)	30.90	31.19	31.48	31.61
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	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	-0.27% / °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	936
Number of Modules Per Pallet	36
Number of Pallets Per Container	26

MONO PERC HALF CELL MODULE

SEMI+MBB

LNE5M108
400-415 WATT



HIGHER POWER DENSITY

- Output up to 415watt on 1.952M²
- 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



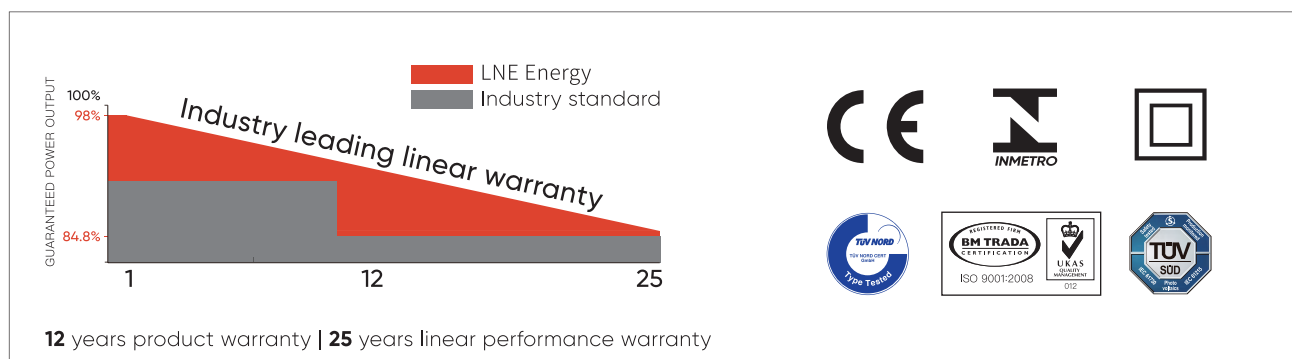
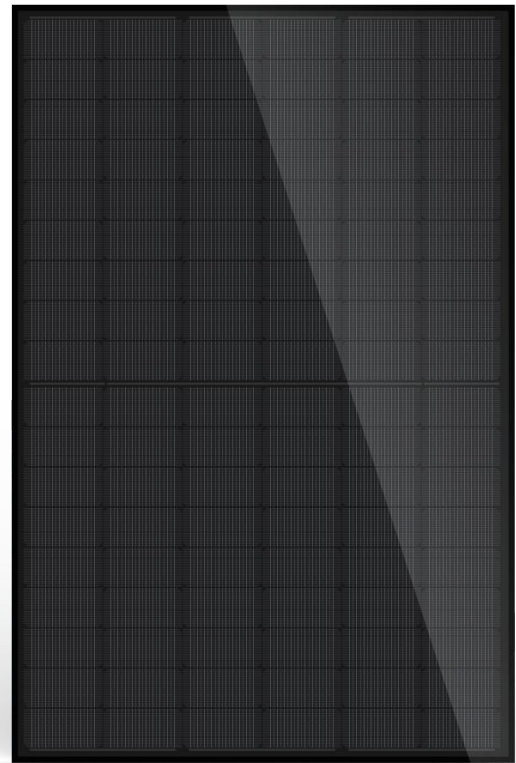
IP68

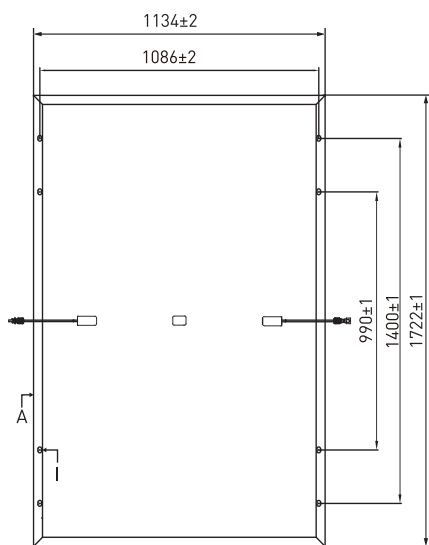
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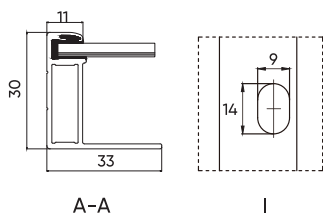
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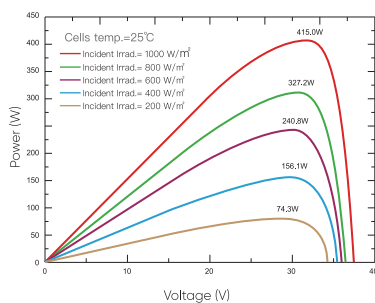
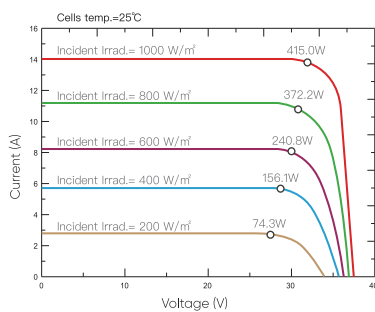




Back Overview



Current-Voltage & Power-Voltage Curves



ELECTRICAL DATA (STC)

Rated Power In Watts-Pmax (Wp)	400	405	410	415
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Cell Configuration	108 cells (6 x 9 x 2)
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Weight	21.5 kg
Glass	High Transmission, Low Iron, Tempered ARC Glass
Back Sheet	Black Back-sheet
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

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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	936
Number of Modules Per Pallet	36
Number of Pallets Per Container	26

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



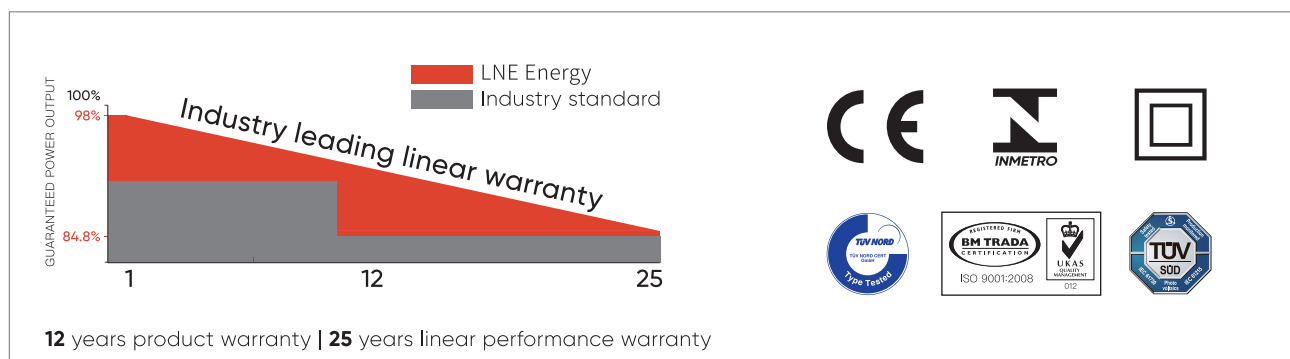
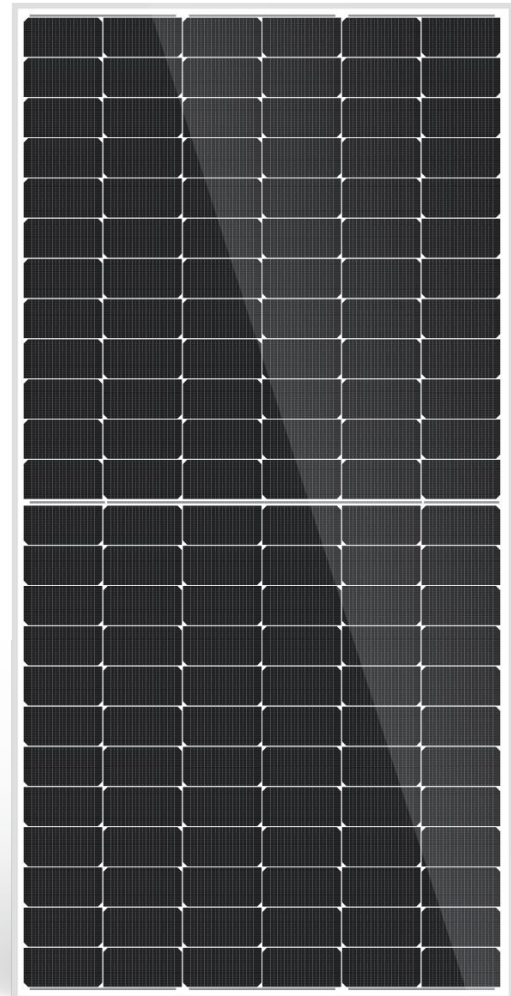
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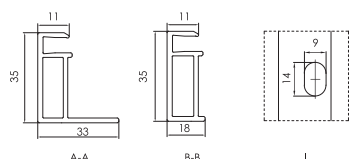
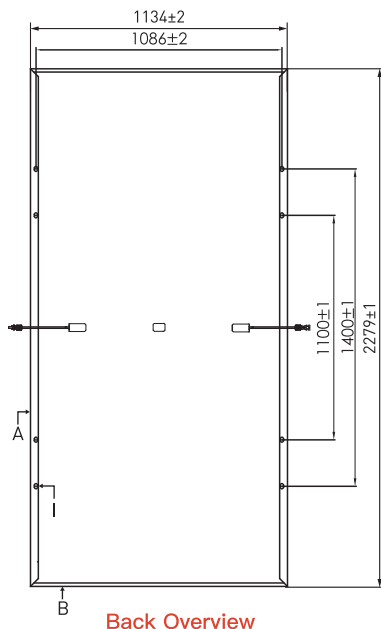
- IP68 junction boxes improve water-proof performance



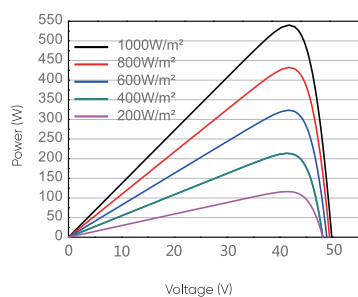
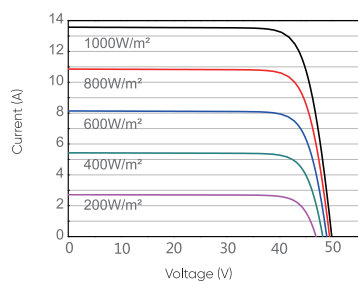
EXCELLENT FIRE-PROOF PERFORMANCE

- Modules have passed anti-fire test





Current-Voltage & Power-Voltage Curves



ELECTRICAL DATA (STC)

Rated Power In Watts-Pmax (Wp)	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	4.0mm ² , (+) 380mm, (-) 380mm or customized length
Connector	MC4 Compatible

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44±2°C
Temperature Coefficient of Voc	-0.27% / °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

MONO PERC HALF CELL MODULE

SEMI+MBB

LNE6M120
590-605 WATT



HIGHER POWER DENSITY

- Output up to 605watt on 2.830M²
- Module efficiency high to 21.4%
- 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



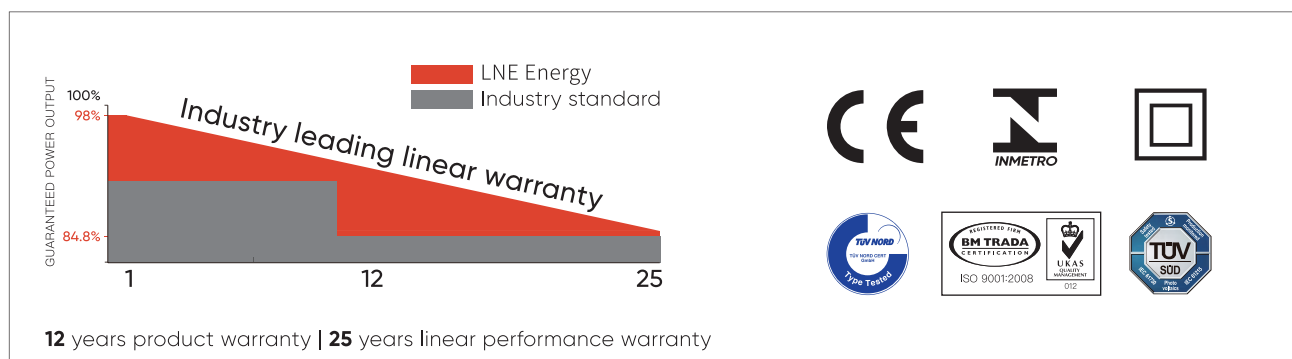
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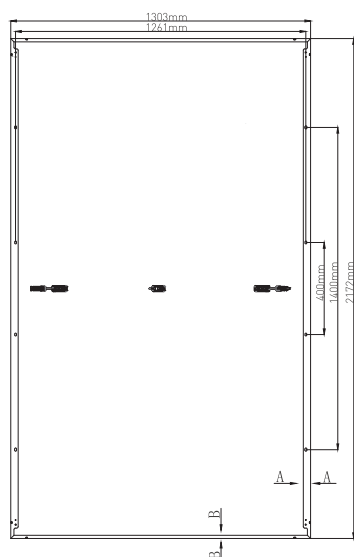
- IP68 junction boxes improve water-proof performance



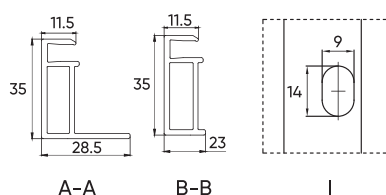
EXCELLENT FIRE-PROOF PERFORMANCE

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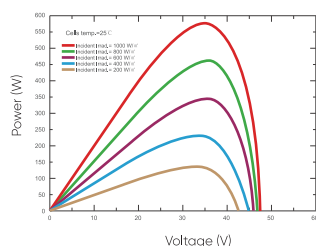
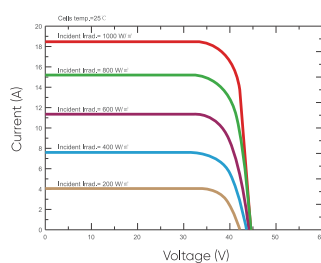




Back Overview



Current-Voltage & Power-Voltage Curves



ELECTRICAL DATA (STC)

Rated Power In Watts-Pmax (Wp)	590	595	600	605
Maximum Power Voltage-Vmpp (V)	34.23	34.43	34.63	34.83
Maximum Power Current-Impp (A)	17.24	17.29	17.33	17.37
Open Circuit Voltage-Voc (V)	41.32	41.52	41.72	41.92
Short Circuit Current-Isc (A)	18.25	18.30	18.35	18.40
Module Efficiency (%)	20.80%	21.00%	21.20%	21.40%

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)	446	450	454	457
Maximum Power Voltage-Vmpp (V)	31.90	32.10	32.30	32.50
Maximum Power Current-Impp (A)	13.98	14.02	14.06	14.09
Open Circuit Voltage-Voc (V)	38.96	39.16	39.36	39.56
Short Circuit Current-Isc (A)	14.70	14.74	14.78	14.82

NOCT: 辐照度800W/m²,环境温度20°C,光谱AM1.5,风速1m/s

MECHANICAL CHARACTERISTICS

Solar Cells	Monocrystalline, MBB
Cell Configuration	120 cells (6 x 10 x 2)
Module Dimensions	2172 x 1303 x 35 mm
Weight	31.0 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	4.0mm ² , (+) 380mm, (-) 380mm or customized length
Connector	MC4 Compatible

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44±2°C
Temperature Coefficient of Voc	-0.27% / °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	35A

PACKAGING

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

MONO PERC HALF CELL MODULE

SEMI+MBB

LNE6M132
655-670WATT



HIGHER POWER DENSITY

- Output up to 670watt on 3.106M²
- Module efficiency high to 21.6%
- 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



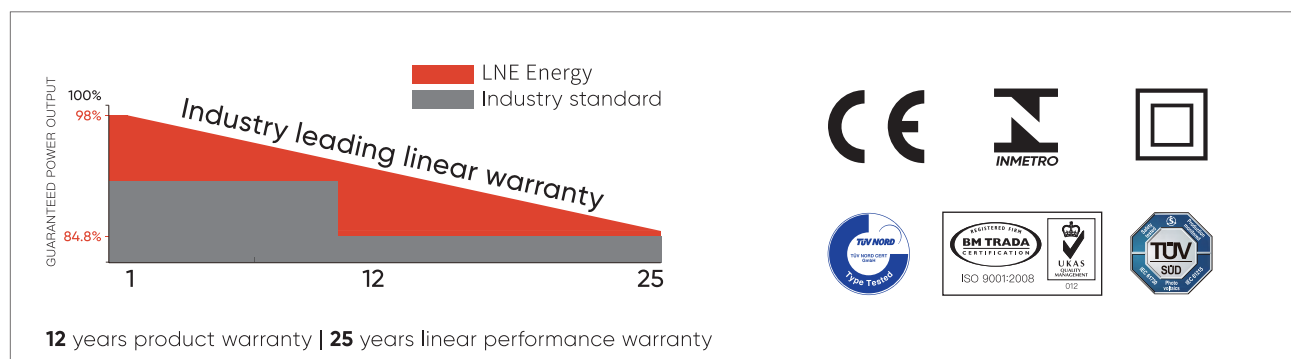
IP68

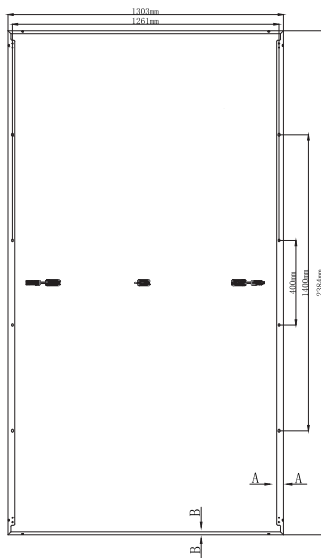
- IP68 junction boxes improve water-proof performance



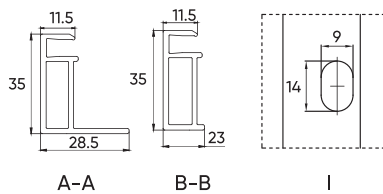
EXCELLENT FIRE-PROOF PERFORMANCE

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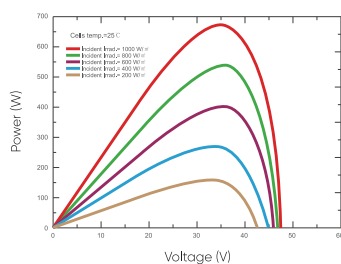
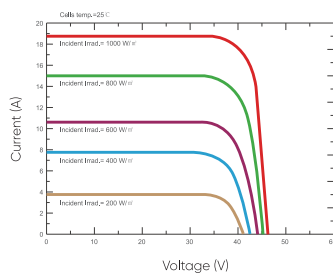




Back Overview



Current–Voltage & Power–Voltage Curves



ELECTRICAL DATA (STC)

Rated Power In Watts–Pmax (Wp)	655	660	665	670
Maximum Power Voltage–Vmpp (V)	37.90	38.10	38.30	38.50
Maximum Power Current–Impp (A)	17.29	17.33	17.37	17.41
Open Circuit Voltage–Voc (V)	45.70	45.90	46.10	46.30
Short Circuit Current–Isc (A)	18.30	18.35	18.40	18.45
Module Efficiency (%)	21.00%	21.20%	21.40%	21.60%

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)	495	499	503	507
Maximum Power Voltage–Vmpp (V)	35.30	35.50	35.70	35.90
Maximum Power Current–Impp (A)	14.02	14.06	14.09	14.13
Open Circuit Voltage–Voc (V)	42.80	43.00	43.20	43.40
Short Circuit Current–Isc (A)	14.74	14.78	14.82	14.86

NMOT: 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	132 cells (6 x 11 x 2)
Module Dimensions	2384 x 1303 x 35 mm
Weight	34.2 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

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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	35A

PACKAGING

	40FT (HQ)
Number of Modules Per Container	558
Number of Modules Per Pallet	31
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400-415 WATT



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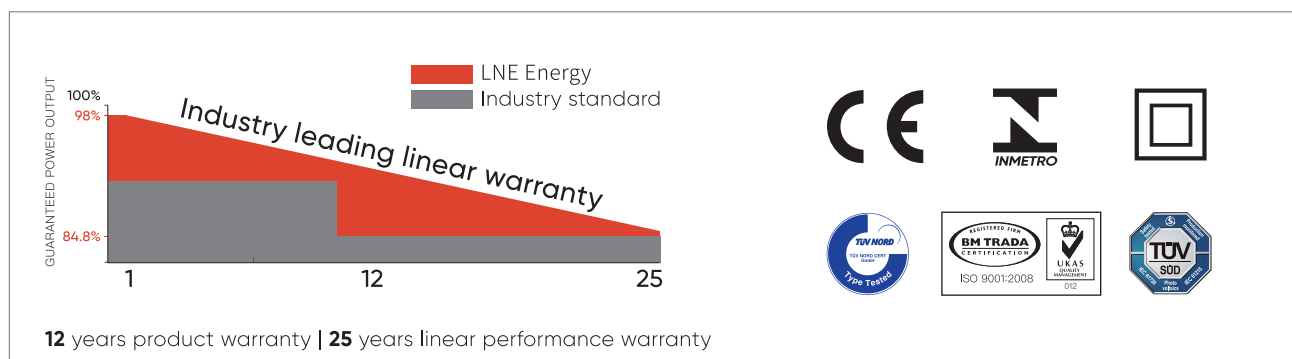
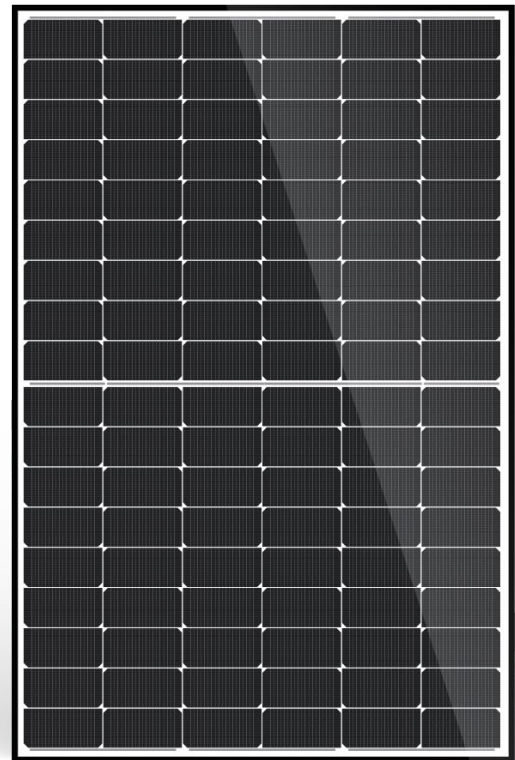
IP68

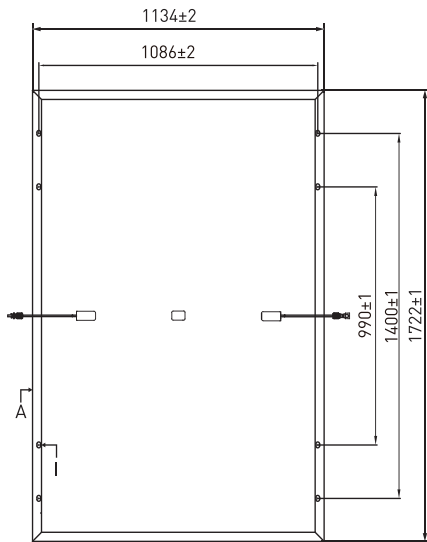
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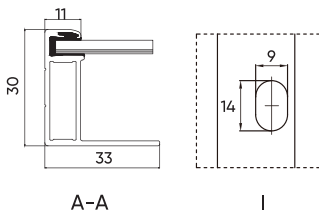
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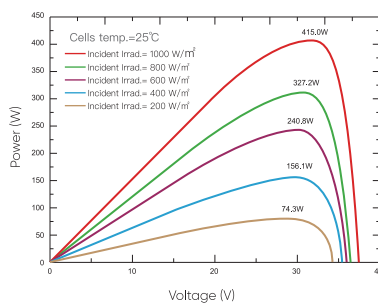
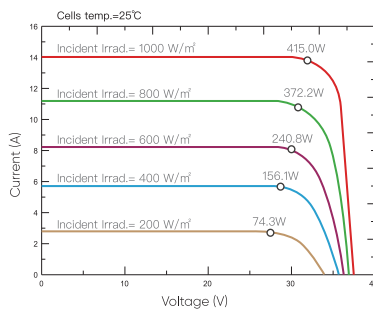




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Maximum Power Voltage-Vmpp (V)	28.95	29.23	29.50	29.74
Maximum Power Current-Impp (A)	10.43	10.47	10.51	10.55
Open Circuit Voltage-Voc (V)	30.90	31.19	31.48	31.61
Short Circuit Current-Isc (A)	11.05	11.09	11.13	11.17

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	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, 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	-0.27% / °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	936
Number of Modules Per Pallet	36
Number of Pallets Per Container	26

BIFACIAL MONO PERC HALF CELL MODULE

SEMI+MBB

LNE5M108
400-415 WATT



HIGHER POWER DENSITY

- Output up to 415watt on 1.952M²
- 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



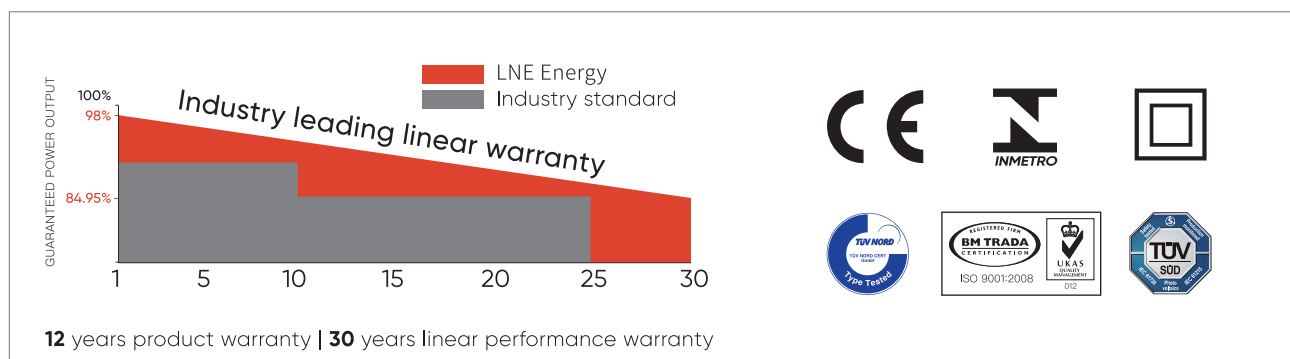
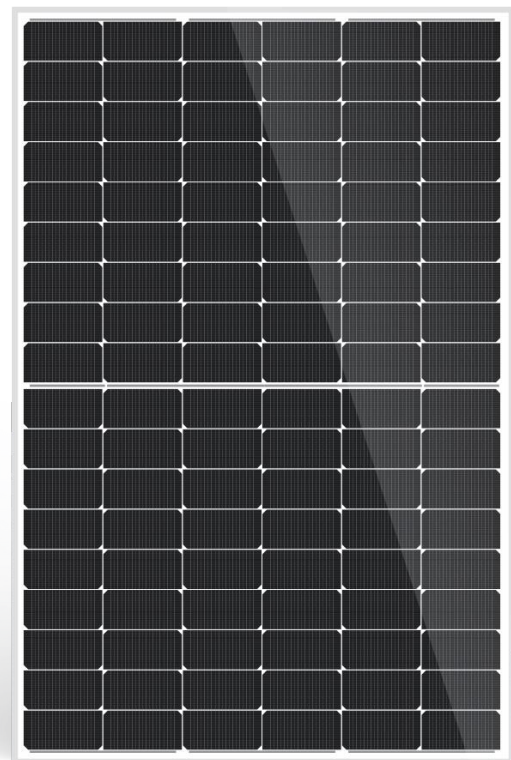
IP68

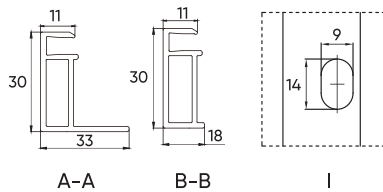
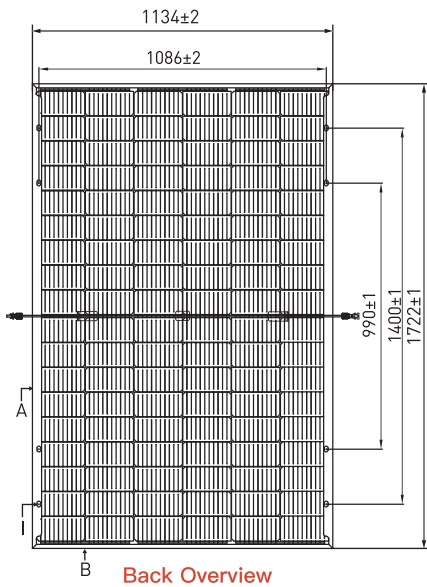
- IP68 junction boxes improve water-proof performance



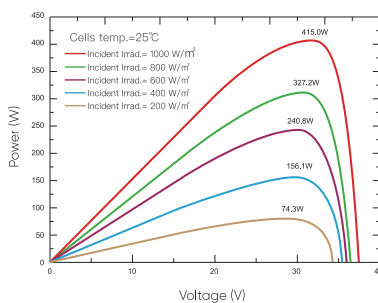
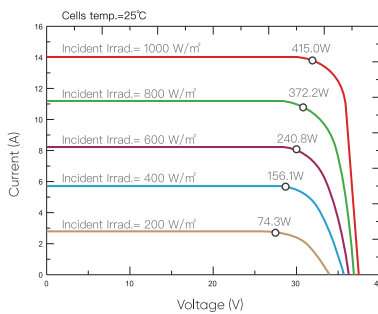
EXCELLENT FIRE-PROOF PERFORMANCE

- Modules have passed anti-fire test





Current–Voltage & Power–Voltage Curves



ELECTRICAL DATA (STC)

Rated Power In Watts-Pmax (Wp)	400	405	410	415
Maximum Power Voltage-Vmpp (V)	31.01	31.23	31.44	31.66
Maximum Power Current-Impp (A)	12.90	12.97	13.04	13.11
Open Circuit Voltage-Voc (V)	37.05	37.20	37.35	37.50
Short Circuit Current-Isc (A)	13.79	13.86	13.93	14.00
Module Efficiency (%)	20.5%	20.7%	21.0%	21.3%

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)	302	306	310	314
Maximum Power Voltage-Vmpp (V)	28.95	29.23	29.50	29.74
Maximum Power Current-Impp (A)	10.43	10.47	10.51	10.55
Open Circuit Voltage-Voc (V)	30.90	31.19	31.48	31.61
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

Electrical Characteristics With Different Rear Side Power Again (Reference To 415w Front)

Pmax gain (%)	5%	10%	15%	20%	25%
Maximum Power (Pmax/W)	436	457	477	498	519
Maximum Power Voltage (Vmpp/V)	31.66	31.66	31.66	31.66	31.66
Maximum Power Current (Impp/A)	13.77	14.42	15.08	15.73	16.39

MECHANICAL CHARACTERISTICS

Solar Cells	Monocrystalline, 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

Nominal Module Operating Temperature (NMOT)	44±2°C
Temperature Coefficient of Voc	-0.275% / °C
Temperature Coefficient of Isc	0.045% / °C
Temperature Coefficient of Pmax	-0.35% / °C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	25A

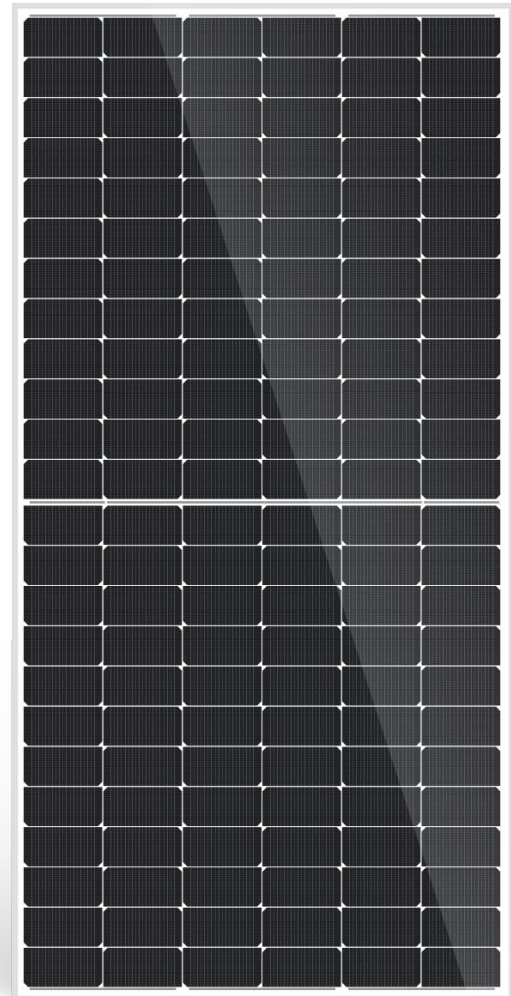
PACKAGING

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

BIFACIAL 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



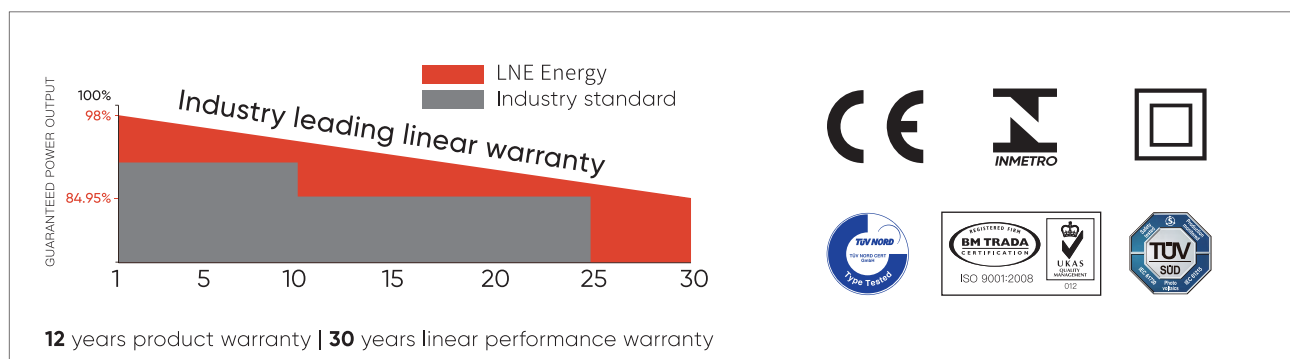
IP68

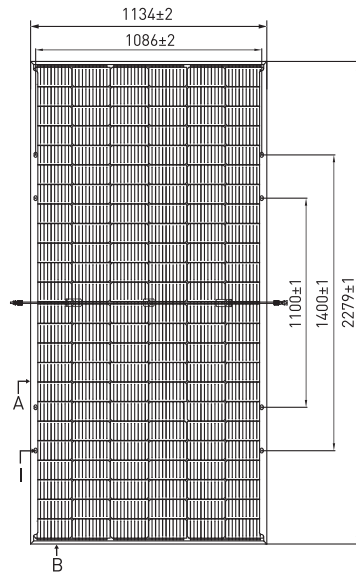
- IP68 junction boxes improve water-proof performance



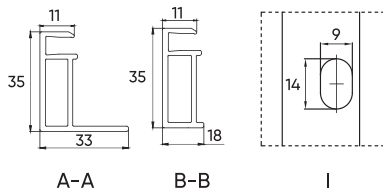
EXCELLENT FIRE-PROOF PERFORMANCE

- Modules have passed anti-fire test

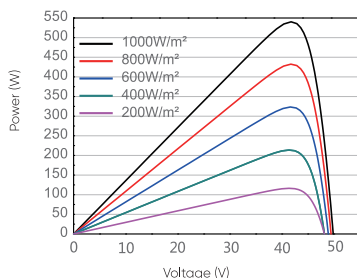
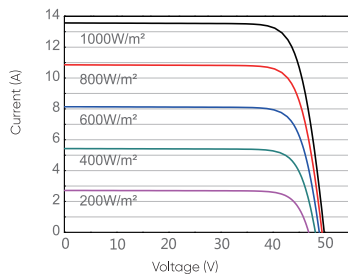




Back Overview



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

Electrical Characteristics With Different Rear Side Power Again (Reference To 550w Front)

Pmax gain (%)	5%	10%	15%	20%	25%
Maximum Power (Pmax/W)	578	605	633	660	688
Maximum Power Voltage (Vmpp/V)	41.97	41.97	41.97	41.97	41.97
Maximum Power Current (Impp/A)	13.76	14.41	15.07	15.72	16.38

MECHANICAL CHARACTERISTICS

Solar Cells	Monocrystalline, 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	-0.275% / °C
Temperature Coefficient of Isc	0.045% / °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

BIFACIAL MONO PERC HALF CELL MODULE

SEMI+MBB

LNE6M120
590-605 WATT



HIGHER POWER DENSITY

- Output up to 605watt on 2.830M²
- Module efficiency high to 21.4%
- 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



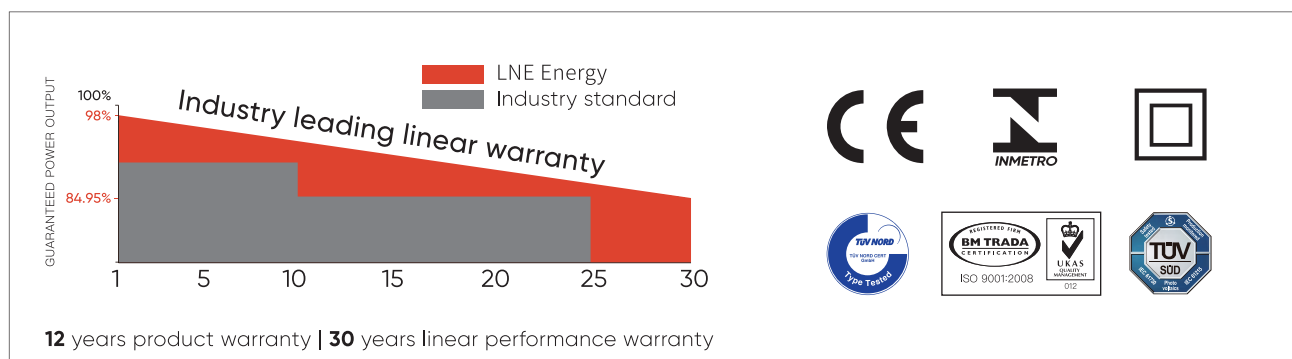
IP68

- IP68 junction boxes improve water-proof performance



EXCELLENT FIRE-PROOF PERFORMANCE

- Modules have passed anti-fire test



ELECTRICAL DATA (STC)

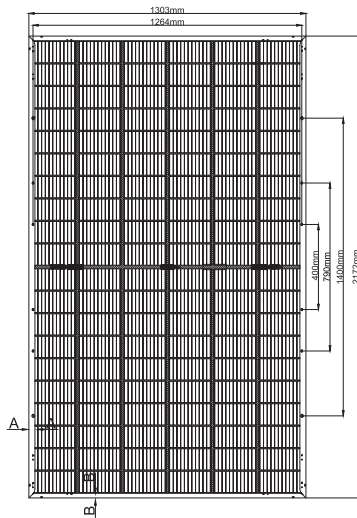
Rated Power In Watts-Pmax (Wp)	590	595	600	605
Maximum Power Voltage-Vmpp (V)	34.23	34.43	34.63	34.83
Maximum Power Current-Impp (A)	17.24	17.29	17.33	17.37
Open Circuit Voltage-Voc (V)	41.32	41.52	41.72	41.92
Short Circuit Current-Isc (A)	18.25	18.30	18.35	18.40
Module Efficiency (%)	20.80%	21.00%	21.20%	21.40%

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

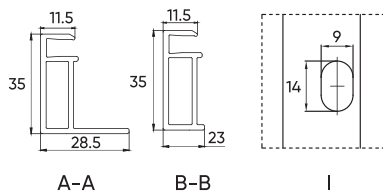
ELECTRICAL DATA (NMOT)

Maximum Power-Pmax (Wp)	446	450	454	457
Maximum Power Voltage-Vmpp (V)	31.90	32.10	32.30	32.50
Maximum Power Current-Impp (A)	13.98	14.02	14.06	14.09
Open Circuit Voltage-Voc (V)	38.96	39.16	39.36	39.56
Short Circuit Current-Isc (A)	14.70	14.74	14.78	14.82

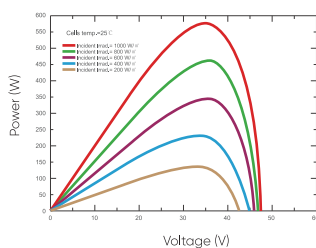
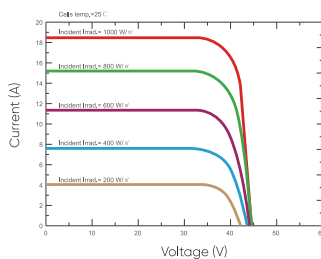
NOCT: Irradiation: 800 W/m², ambient temperature: 20°C, air mass: 1.5, wind speed 1 m/s



Back Overview



Current-Voltage & Power-Voltage Curves



Electrical Characteristics With Different Rear Side Power Again (Reference To 590w Front)

Pmax gain (%)	5%	10%	15%	20%	25%
Maximum Power (Pmax/W)	620	649	679	708	738
Maximum Power Voltage (Vmpp/V)	34.23	34.23	34.23	34.23	34.23
Maximum Power Current (Impp/A)	18.11	18.96	19.82	20.68	21.55

MECHANICAL CHARACTERISTICS

Solar Cells	Monocrystalline, MBB
Cell Configuration	120 cells (6 x 10 x 2)
Module Dimensions	2172 x 1303 x 35 mm
Weight	34.9 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	-0.275% / °C
Temperature Coefficient of Isc	0.045% / °C
Temperature Coefficient of Pmax	-0.35% / °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

BIFACIAL MONO PERC HALF CELL MODULE

SEMI+MBB

LNE6M132
655-670 WATT



HIGHER POWER DENSITY

- Output up to 670watt on 3.106M²
- Module efficiency high to 21.6%
- 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



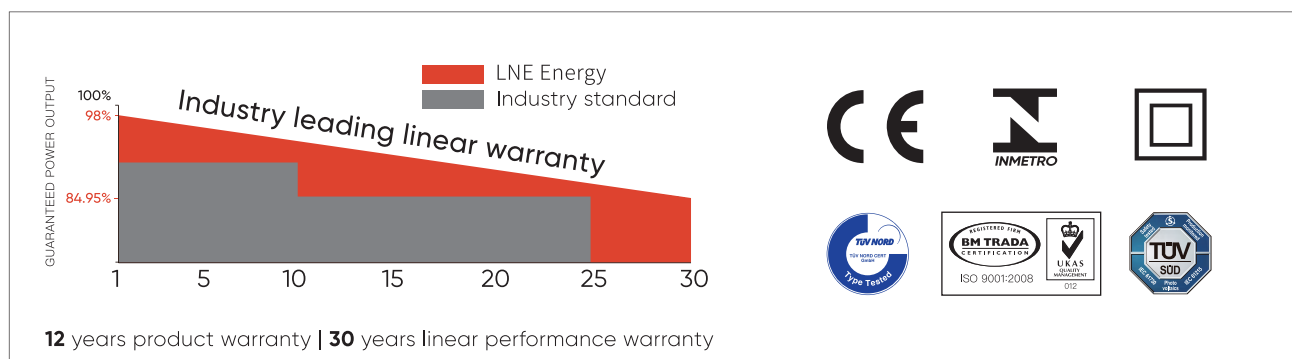
IP68

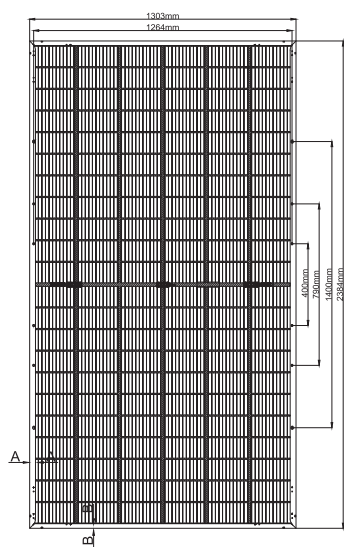
- IP68 junction boxes improve water-proof performance



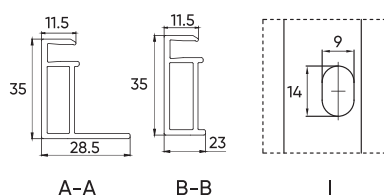
EXCELLENT FIRE-PROOF PERFORMANCE

- Modules have passed anti-fire test

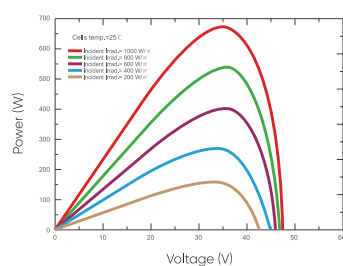
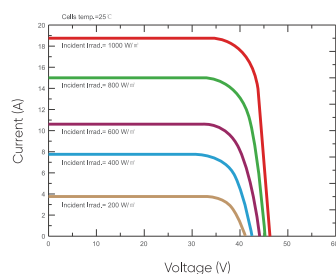




Back Overview



Current-Voltage & Power-Voltage Curves



ELECTRICAL DATA (STC)

Rated Power In Watts-Pmax (Wp)	655	660	665	670
Maximum Power Voltage-Vmpp (V)	37.90	38.10	38.30	38.50
Maximum Power Current-Impp (A)	17.29	17.33	17.37	17.41
Open Circuit Voltage-Voc (V)	45.70	45.90	46.10	46.30
Short Circuit Current-Isc (A)	18.30	18.35	18.40	18.45
Module Efficiency (%)	21.00%	21.20%	21.40%	21.60%

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)	495	499	503	507
Maximum Power Voltage-Vmpp (V)	35.30	35.50	35.70	35.90
Maximum Power Current-Impp (A)	14.02	14.06	14.09	14.13
Open Circuit Voltage-Voc (V)	42.80	43.00	43.20	43.40
Short Circuit Current-Isc (A)	14.74	14.78	14.82	14.86

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 655w Front)

Pmax gain (%)	5%	10%	15%	20%	25%
Maximum Power (Pmax/W)	688	721	753	786	819
Maximum Power Voltage (Vmpp/V)	37.90	37.90	37.90	37.90	37.90
Maximum Power Current (Impp/A)	18.15	19.01	19.88	20.74	21.60

MECHANICAL CHARACTERISTICS

Solar Cells	Monocrystalline, 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	-0.275% / °C
Temperature Coefficient of Isc	0.045% / °C
Temperature Coefficient of Pmax	-0.35% / °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