620~640 Watt

LC SOLAR

LC-66M-182*210-ND *N-type Bifacial Modules*

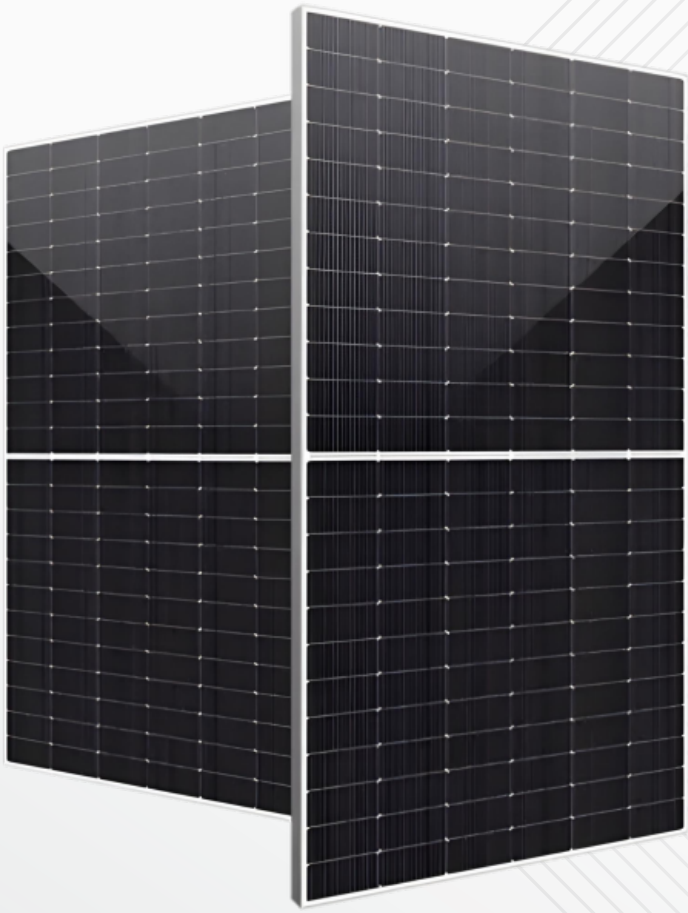
SMBB Half-Cell Technology
More uniform current collection capability, reducing the current heat loss of the internal cells.

Higher Output Power
The output power of 132 half-cells monocrystalline modules is up to 640W.

Low Light Features
Higher performance under low light environment.

Harsh Environmental Adaptability
Strict salt spray and ammonia corrosiontest by the third party.

N-type With Very Low LID
N-type solar cell has very low LID naturally which can reduce power degradation.



IEC61215:2021

IEC61730:2023

ISO9001:2015 Quality Management System

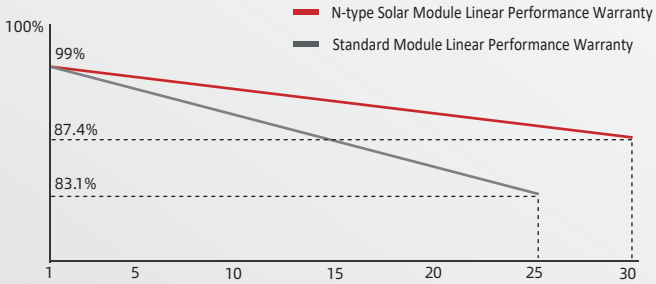
ISO14001:2015 Environmental Management System

ISO45001:2018 Occupational Health and Safety Management System

CE: Europe Standard

China Quality Certification Centre

Solar Product Certification



15 15-year product warranty

30 30-year linear power output warranty

JIANGYIN LICHENG LIGHT ENERGY CO.,LTD(LCSOLAR)

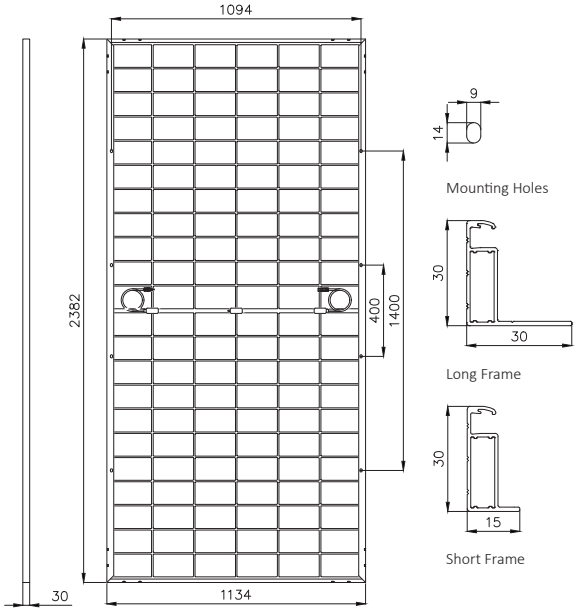
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LC-66M-182*210-ND

LC SOLAR

MECHANICAL DIAGRAMS



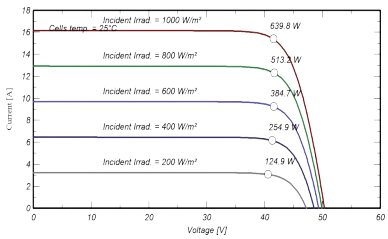
Unit:mm Tolerance:±2mm

MECHANICAL PARAMETERS

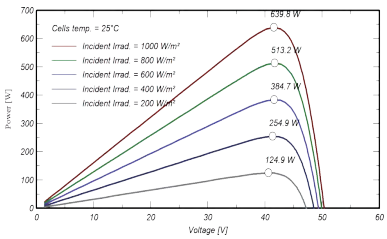
Weight	33.7kg
Dimension	2382×1134×30mm
Cell Orientation	132(6×22)
Junction Box	IP68, three diodes
Output Cable	4mm²,±300mm(length can be customized)
Connector	MC4 compatible
Glass	2.0+2.0mm AR coated heat strengthened glass
Frame	Anodized aluminum alloy frame
Packaging	36pcs per pallet/720pcs per 40'HC

CURVES OF PV MODULE

LC640



LC640



ELECTRICAL CHARACTERISTICS

Module Type	620		625		630		635		640	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power(Pmax/W)	620	484	625	488	630	491	635	495	640	499
Open Circuit Voltage(Voc/V)	49.40	49.05	49.63	49.29	49.87	49.52	50.11	49.76	50.35	50.00
Short Circuit Current(Isc/A)	15.95	12.44	16.00	12.48	16.05	12.52	16.10	12.56	16.15	12.60
Maximum Power Voltage(Vmp/V)	41.05	41.50	41.25	41.70	41.45	41.90	41.65	42.10	41.84	42.30
Maximum Power Current(Imp/A)	15.10	11.65	15.15	11.69	15.20	11.73	15.25	11.76	15.29	11.80
Module Efficiency(%)	22.9		23.1		23.3		23.5		23.7	

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO (BNPI)

Maximum Power(Pmax/W)	682	688	693	699	704
Open Circuit Voltage(Voc/V)	49.40	49.63	49.87	50.11	50.35
Short Circuit Current(Isc/A)	17.55	17.60	17.66	17.71	17.77
Maximum Power Voltage(Vmp/V)	41.05	41.25	41.45	41.65	41.84
Maximum Power Current(Imp/A)	16.61	16.67	16.72	16.77	16.82

*Rear side power gain:The additional gain from the rear side compared to the power of the front side at the standard test condition.It depends on mounting (structure,height,tilt angle etc.)and albedo of the ground.

OPERATING PARAMETERS

Operational Temperature	-40°C~+85°C
Power Output Tolerance	0~3%
Maximum System Voltage	1500V
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class Ⅱ
Bifaciality	80±5%
Fire Rating	IEC Class A

MECHANICAL LOADING

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

TEMPERATURE RATINGS (STC)

Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Voc	-0.23%/°C
Temperature Coefficient of Pmax	-0.28%/°C

*The actual test value may be slightly deviated from the technical parameters due to the difference in test methods.

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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Specifications included in this datasheet are subject to change without notice.

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