

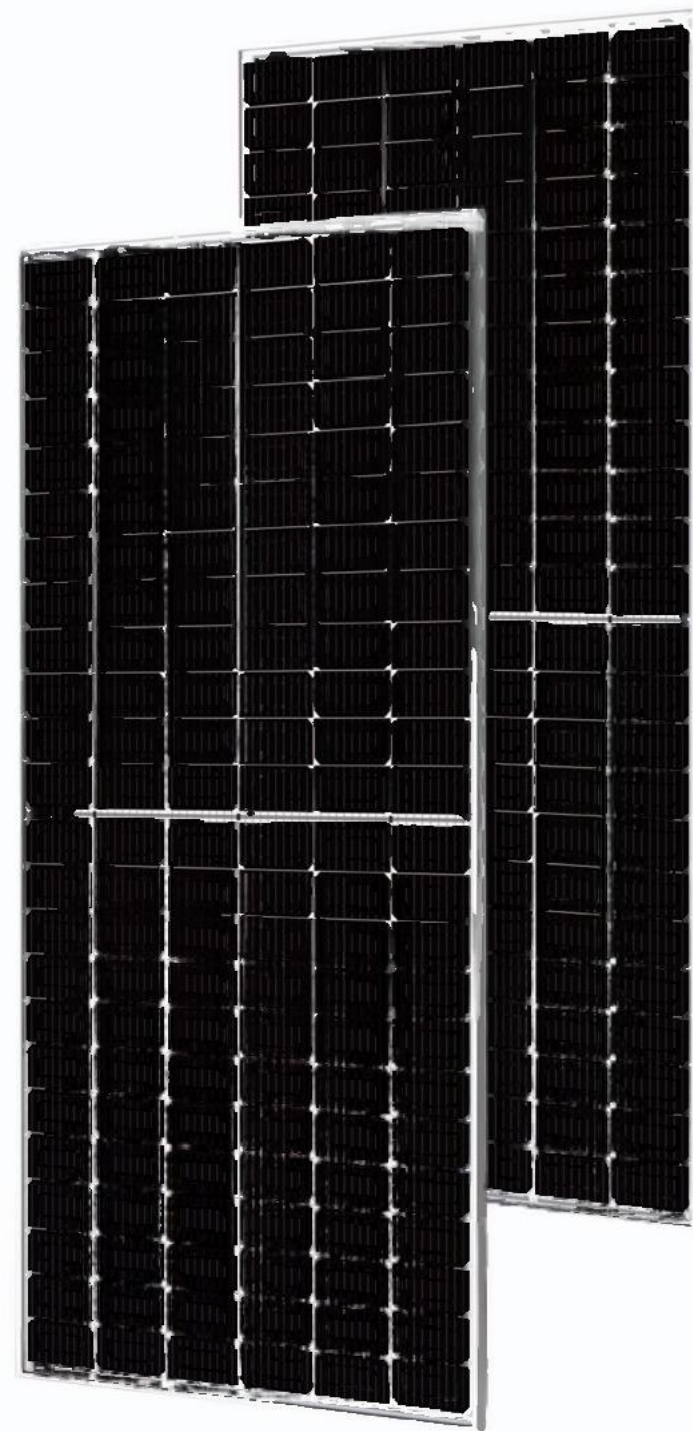
# LUSEN

## LS-M10-72/2HP 525~550W

### Product introduction

With the high-efficiency 182 series PERC cell half-cell technology, the product has higher output power and excellent performance in terms of shielding loss and temperature coefficient.

Meanwhile, applying the cell-cutting technology has effectively reduced the risk of hot spots of high-power components, and it shows better power generation performance in system applications with higher reliability.



### Electrical characteristics

Component model	HS-M10-72/2HP 525W	HS-M10-72/2HP 530W	HS-M10-72/2HP 535W	HS-M10-72/2HP 540W	HS-M10-72/2HP 545W	HS-M10-72/2HP 550W
Max power (Pmax)	525WF	530WF	535WP	540WP	545WP	550WP
Max power voltage (Vmp)	41.47V	41.63V	41.80V	41.96V	42.12V	42.28V
Max power current (Imp)	12.66A	12.73A	12.80A	12.87A	12.94A	13.01A
Open circuit voltage (Voc)	49.59V	49.74V	49.89V	49.04V	50.18V	50.32V
Short circuit current (Isc)	13.55A	13.62A	13.69A	13.76A	13.83A	13.90A
Module (%)	20.31%	20.51%	20.70%	20.79%	21.09%	21.28%
Output power tolerance	0~+5w					
Temperature coefficient of Pmax	-0.360%/°C					
Temperature coefficient of Voc	-0.280%/°C					
Temperature coefficient of Isc	0.050%/°C					
Standard test conditions	Irradiance 1000W/m², battery temperature 25°C, spectrum AM1.5g					

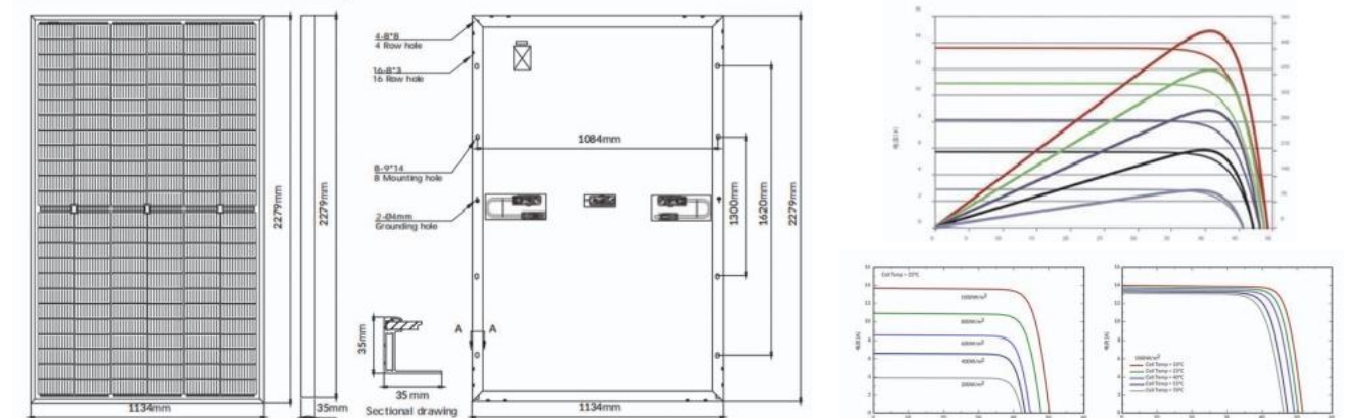
### Application conditions

Solar Cell	Mono PERC 182x182mm	Front Cover Glass	3.2mm high light transmittance tempered glass
Number of Cells	144 (6*24)	Frame	Anodic alumina alloy
Component size	2279*1134*35mm ± 2mm	Component weight	27.5KG ± 30
Connection box	IP68 three diode	Connector	QC4.10-35 (1500V)
Cross-sectional area of output conductor	4mm² (IEC), 12AWG (UL)	Output wire length	300mm (+) / 300mm (-)

### Structural parameters

Maximum system voltage	DC1500V (IEC)	Maximum static load, front	5400Pa (112lb/ft²)
Operating temperature range	-40°C ~ +85°C	Maximum static load, back	2400Pa (50lb/ft²)
Maximum rated fuse current	25A	Through hail test	25mm diameter, impact speed 23m/s

### Assembly dimensions



### Packaging information

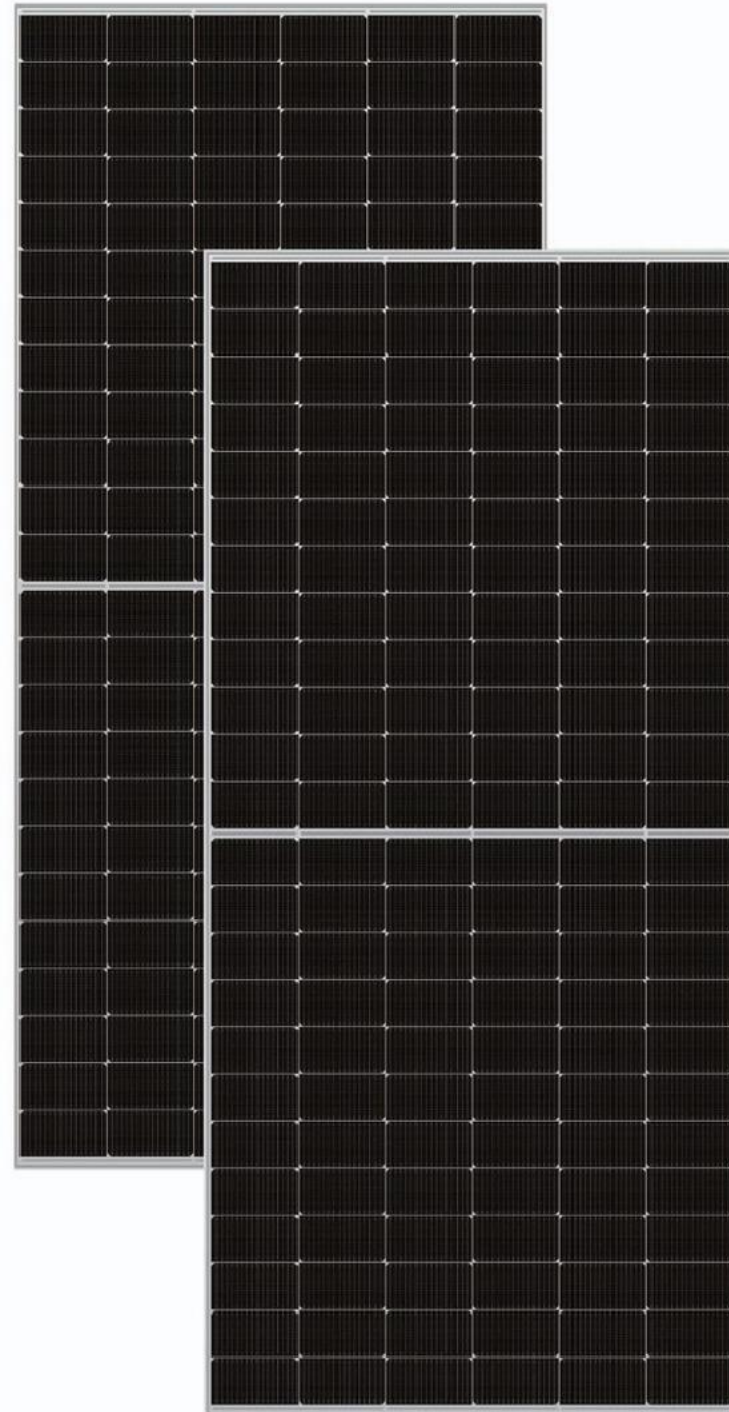
33 pieces/pallet 660 pieces/40HQ 726 pieces/45HQ 726 pieces/13m truck 1014 pieces/17.5m truck

# LU SEN

## LS-M10N-72/2HP 570~590W N-TYPE PV

### Product INTRODUCTION

Adopting efficient N-type TOPC on battery slicing technology, the conversion efficiency reaches 22.8%; N-type batteries naturally have no photo induced attenuation (LID); Passivation contact battery technology enables the product to have a better temperature coefficient and higher power generation compared to conventional components in working conditions; Multi density main gate technology, better light utilization and Current collection ability, effectively improving product power output and reliability; Better weak light response enables the product to have higher power output compared to conventional components under low light conditions such as haze and cloudy days.



#### Electrical characteristics

Component model	1s-M10N-72/2HP 570W	1s-M10N-72/2HP 575W	1s-M10N-72/2HP 580W	1s-M10N-72/2HP 585W	1s-M10N-72/2HP 590W
Max power (Pmax)	570WP	575WP	580WP	585WP	590WP
Max power voltage (Vmp)	42.99V	43.17V	43.35V	43.3\	43.71V
Max power current (Imp)	13.26A	13.32A	13.38A	13.44A	13.50A
Open circuit voltage (Voc)	51.99V±3%	52.15V±3%	52.31V±3%	52.47V±3%	52.63V±3%
Short circuit current (Isc)	13.89A±3%	13.95A±3%	14.01A±3%	14.07A±3%	14.13A±3%
Module eff (%)	22.1%	22.3%	22.5%	22.7%	22.8%
Output power tolerance	0~+5w				
Temperature coefficient of Pmax	-0.29%/°C				
Temperature coefficient of Voc	-0.25%/°C				
Temperature coefficient of Isc	0.045%/°C				
Standard test conditions	Irradiance 1000W/m², battery temperature 25°C, spectrum aml.5G				

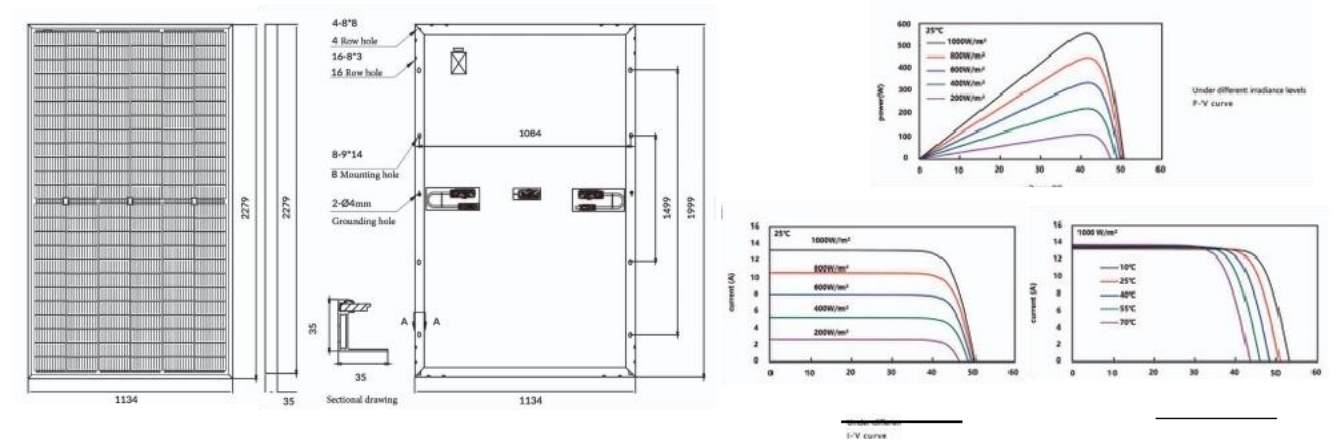
#### Structural parameters

Battery type	Mono N-TOPCon (182*91mm)	Front Cover Glass	3.2mm high light transmittance, low iron, tempered glass
Number of batteries	144 (6*24)	Frame	Anodic alumina alloy
Component size	2279*1134*35mm±2mm	Component weight	27.5KG±3%
Connection box	IP68, three diodes	Connector	QC4.10-35 (1500V)
Cross sectional area of output conductor	4mm² (IEC), 12AWG (UL)	Output wire length	300mm (+)/300mm (-)

#### Application conditions

Maximum system voltage	DC1500V (IEC)	Maximum static load, front	5400Pa (1121b/ft²)
Operating temperature range	-40°C~+85°C	Maximum static load, back	2400Pa (501b/ft²)
Maximum rated fuse current	25A	Through hail test	25mm diameter, impact speed 23m/s

#### Assembly dimensions and electrical performance curves



#### Packaging information

33 pieces/pallet 660 pieces/40HQ 726 pieces/45HQ 726 pieces/13m truck 1014 pieces/17.5m truck