

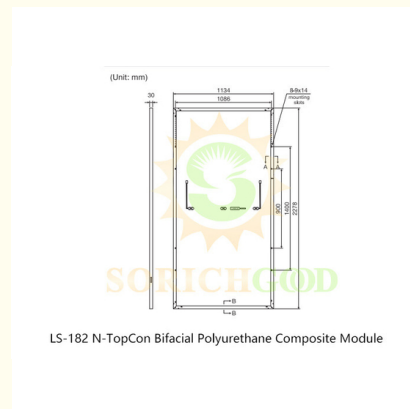


555W 182 N-TopCon Bifacial Polyurethane Composite Module Cutting-Edge Bifacial Technology

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: LS
- Certification: IEC 61215/IEC 61730/ISO 9001/ISO 14001/ISO 45001
- Model Number: BP555
- Minimum Order Quantity: 806 pcs
- Price: consult prices online
- Packaging Details: Per Pallet: 36 pcs Per Container (40'HQ): 720 pcs
- Payment Terms: T/T



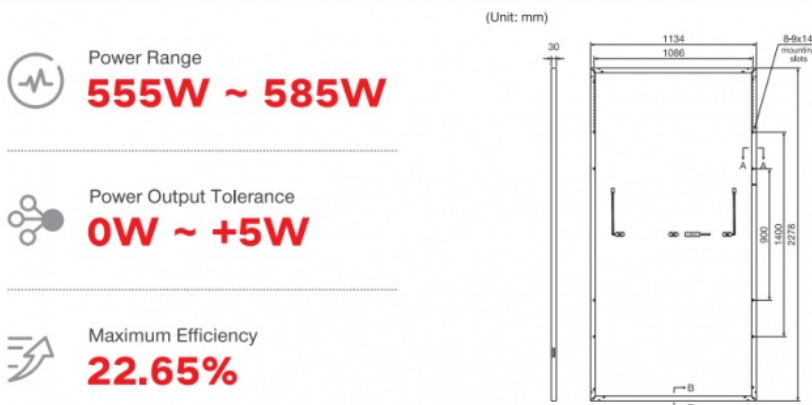
Product Specification

- Power Range: 555W - 585W
- Module Efficiency: Up To 22.65%
- Nominal Max. Power (STC): 555W - 585W
- Open Circuit Voltage (Voc): 50.43V - 51.63V
- Short Circuit Current (Isc): 14.03A - 14.39A
- Maximum System Voltage: 1500V DC
- Temperature Coefficient (Pmax): -0.30%/°C
- Operating Temperature: -40°C ~ +85°C
- Highlight: 555W monocrystalline silicon solar panels, 585W monocrystalline silicon solar panels, 51.63V single crystalline solar cell

Product Description

555W 182 N-TopCon Bifacial Polyurethane Composite Module Cutting-Edge Bifacial Technology

182 N-TopCon Bifacial Polyurethane Composite Module



Product Description

The 182 N-TopCon Bifacial Polyurethane Composite Module offers a power range of 555W to 585W with an outstanding efficiency of up to 22.65%. This module is designed with cutting-edge bifacial technology, maximizing energy output from both sides. Its polyurethane composite frame provides enhanced durability and weather resistance, making it ideal for challenging environmental conditions. The module features 144 half-cut cells, which improve performance under partial shading and reduce hot spot risks. With a robust IP68-rated junction box and high-quality tempered glass, this module is built for long-term reliability and high performance in various applications.

Electrical Performance Parameters |STC

Model Type		555C(HBD) 72(182)	560C(HBD) 72(182)	565C(HBD) 72(182)	570C(HBD) 72(182)	575C(HBD) 72(182)	580C(HBD) 72(182)	585C(HBD) 72(182)
Nominal Max.Power	P _{max} (W)	555	560	565	570	575	580	585
Max.Power Voltage	V _{mp} (V)	41.92	42.11	42.30	42.45	42.60	42.75	42.89
Max.Power Current	I _{mp} (A)	13.24	13.30	13.36	13.43	13.50	13.57	13.64
Open Circuit Voltage	V _{oc} (V)	50.43	50.63	50.83	51.03	51.23	51.43	51.63
Short Circuit Current	I _{sc} (A)	14.03	14.09	14.15	14.21	14.27	14.33	14.39
Module Efficiency	(%)	21.48	21.68	21.87	22.07	22.26	22.45	22.65
Power Output Tolerance	(W)				0~+5W			

*STC:Irradiance 1000W/m²,Cell Temperature 25°C,Air Mass AM1.5.

*Power measurement tolerance ±3%.

Electrical Performance Parameters |NMOT

Model Type	555C(HBD) 72(182)	560C(HBD) 72(182)	565C(HBD) 72(182)	570C(HBD) 72(182)	575C(HBD) 72(182)	580C(HBD) 72(182)	585C(HBD) 72(182)
Nominal Max.Power P _{max} (W)	417	421	425	429	433	437	441
Max.Power Voltage V _{mp} (V)	39.42	39.57	39.72	39.87	40.02	40.17	40.32
Max.Power Current I _{mp} (A)	10.58	10.64	10.70	10.76	10.82	10.88	10.94
Open Circuit Voltage V _{oc} (V)	47.90	48.09	48.28	48.47	48.66	48.85	49.04
ShortCircuitCurrent I _{sc} (A)	11.32	11.37	11.42	11.46	11.51	11.56	11.61

*NMOT:Irradiance 800W/m²,Cell Temperature 20°C,Wind Speed 1m/s.

*Power measurement tolerance ±3%.

Structure Performance

Solar Cell Type	182mm N-TopCon Mono Cell(Half Cell)
Solar Cell Arrangement	144pcs(G×24)
Module Dimension	2278×1134×30mm
Weight	30.6kg

Front Glass	2.0mm,highly transparent tempered glass with anti-reflective coating
Frame	Polyurethane Composite Frame
Junction Box	IP68 rated
Diode Quantity	3 pcs
Front side/Rear side	5400pa/2400pa
Connector	MC4 Compatible
Per Pallet	36pcs
Per Container(40'HQ)	720pcs

Temperature Characteristics	
Nominal Module Operating Temperature	44±2°C
Temperature Coefficient(Isc)	+0.043%
Temperature Coefficient (Voc)	-0.25%
Temperature Coefficient(Pmax)	-0.30%

Maximum Parameters	
Working Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Nominal Maximum Fuse Current	30A

Application

The 182 N-TopCon Bifacial Polyurethane Composite Module is perfect for utility-scale solar farms, commercial rooftop installations, and other large-scale solar projects where maximum energy yield and long-term durability are crucial. Its bifacial design also makes it ideal for installations where ground reflection or light from surrounding surfaces can be utilized to increase energy production.

Our Certificates

IEC61215, IEC61730,
ISO 9001:2015 Quality management system,
ISO 14001:2015 Environment management system,
ISO 45001:2018 Occupational health and safety management system



Shipping Methods

Supports global air and sea shipping.



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