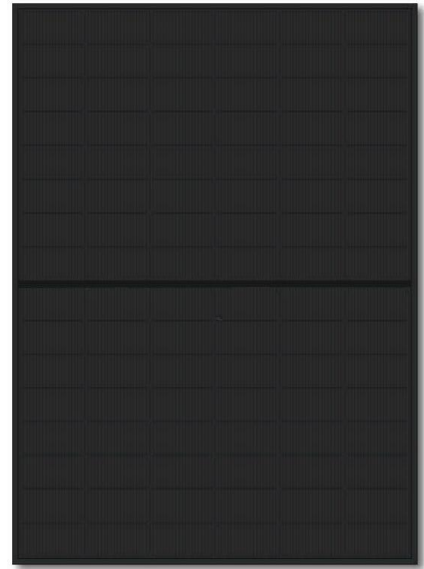


HS-48TBB 435~455-S7

22.8%

Maximum module efficiency

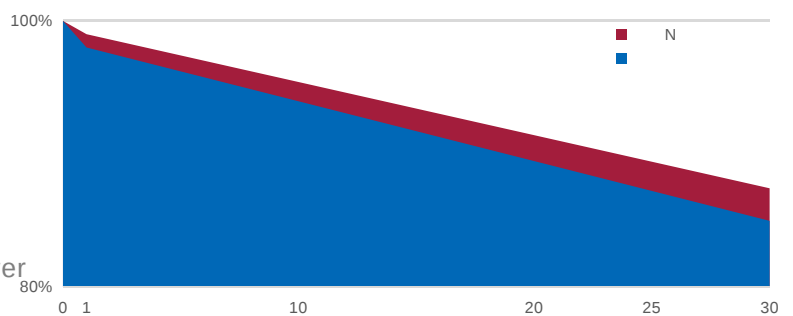


12

- 12-year product warranty
- 1% 1st-year power degradation

30

- 30-year linear power warranty
- 0.4% annual power degradation



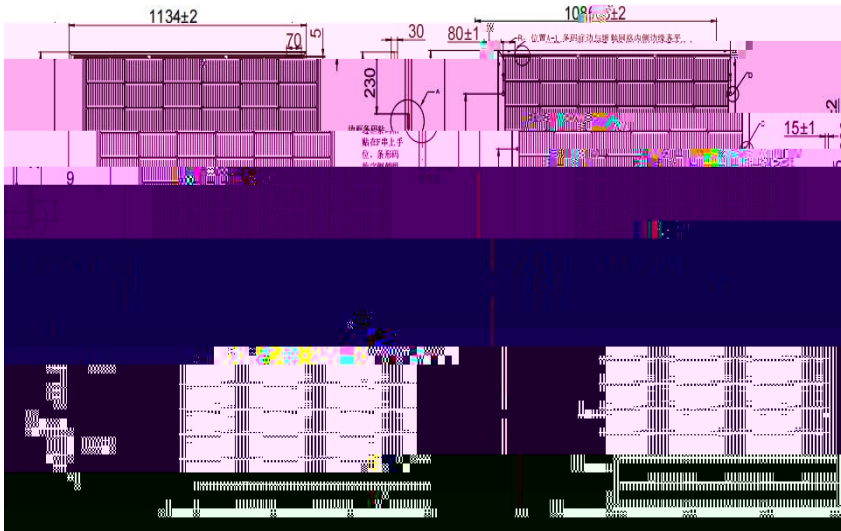
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System (QMS)

ISO14001:2015: Environmental Management System

ISO45001:2018:Occupational Health and Safety Management System





Mechanical Parameters

Cell type	N-type Monocrystalline solar cells
Number of half cell	96 (6×16)
Dimensions	1762×1134×30mm
Weight	20.9kg
Front Glass	1.6mm anti-reflective coating glass
Back Glass	1.6mm Heat-strengthened glass
Frame	Anodized aluminum alloy
Junction box	IP68
Output cable	4.0mm ² ; + 400/-200mm or customised
Size of each pallet	1778×1140×1250mm

Electrical performance parameters

Module Type		HS-48TBB 435-455-S7									
Test Condition		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power	Pmax/W	435	355	440	359	445	363	450	368	455	372
Optimum Operating Voltage	Vmp/V	29.45	29.32	29.58		29.71	29.69	29.84	29.86	29.97	30.03
Optimum Operating Current	Imp/A	14.77	12.10	14.87	12.17	14.98	12.24	15.08	12.31	15.18	12.38
Open Circuit Voltage	Voc/V	34.71	34.81		34.98	35.05	35.15	35.22	35.32	35.39	35.49
Short Circuit Current	Isc/A	15.88	12.68	15.96	12.74	16.04	12.80	16.12	12.86	16.20	<u>12.92</u>
Module Efficiency	%	21.8%		22.0%		22.3%		22.5%		22.8%	
Operating Temperature Range (°C)						-40°C~ +85°C					
Maximum System Voltage						1500V DC (IEC)					
Maximum Rated Fuse Current						25A					
Power Tolerance						0~+5W					
Temperature Coefficient of peak power Pmax						-0.29%/°C					
Temperature Coefficient of open circuit voltage(Voc)						-0.25%/°C					
Temperature Coefficient of short-circuit current(Isc)						0.043%/°C					
Nominal Operating Temperature of cell NOTC						45±2°C					
Bifaciality(BiFi)						80±5%					

Parameters of bifacial power generation (Backside Power Gain)

5%	Maximum power(Pmax)	457Wp	462Wp	467Wp	473Wp	478Wp
	Module efficiency(%)	22.9%	23.1%	23.4%	23.6%	23.9%
10%	Maximum power(Pmax)	479Wp	484Wp	490Wp	495Wp	501Wp
	Module efficiency(%)	23.9%	24.2%	24.5%	24.8%	25.0%
15%	Maximum power(Pmax)	500Wp	506Wp	512Wp	518Wp	523Wp
	Module efficiency(%)	25.0%	25.3%	25.6%	25.9%	26.2%