

产品系列 Products Series

DMS N-TYPE 72HL4-BDV

560-580 Watt

DMS N-TYPE 72HL4-BDV560-580瓦

高效单晶硅双面半片太阳能组件

High-efficiency monocrystalline silicon double-sided half-chip solar module

N-Type

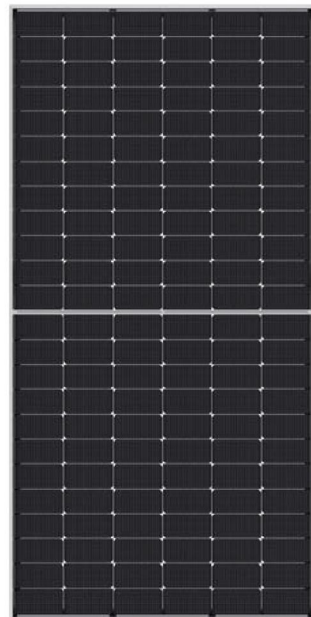
0~+3%正公差 0~+3%Positive tolerance

IEC61215(2016),IEC61730(2016)

ISO9001 : 2015 : 质量管理体系 quality management system

ISO14001 : 2015 : 环境管理体系 Environmental management system

ISO45001 : 2018 : 职业健康安全管理体系 Occupational health and safety management system



Component characteristics 组件特性



多主栅技术 Multi-gate technology

更优的光线利用率和电流收集能力，有效提升产品功率输出和可靠性。

Better light utilization and current collection capacity, effectively improving product power output and reliability



抗PID保证 Anti-PID guarantee

通过电池生产技术优化及材料管控将PID现象造成的衰减几率降至最小。

Minimize the attenuation probability caused by PID phenomenon through battery production technology optimization and material control



双面发电 Double-sided power generation

双面发电增益随背面受光增加,最高可达25%,显著降低LCOE
Double-sided power generation gain increases with back light exposure, up to 25%, significantly reducing LCOE



HOT 2.0 技术 HOT2.0 technology

使用HOT 2.0技术的N型组件具有更佳可靠性以及更低LID/LETID衰减。

N-type components using HOT2.0 technology have better reliability and lower LID/LETID attenuation



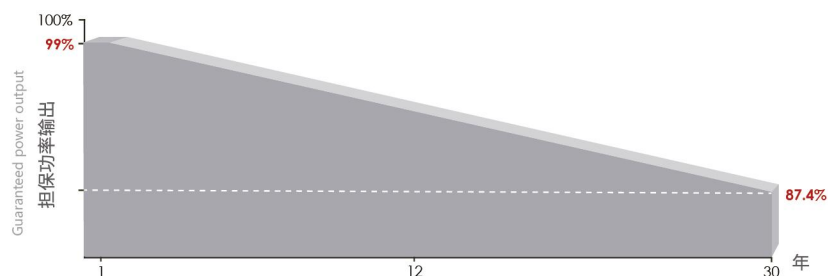
载荷能力 Load capacity

整体组件通过2400Pa的风载荷及5400Pa的雪载荷认证。

The whole assembly has passed the certification of 2400Pa wind load and 5400Pa snow load



Industry-leading linear warranty 业内领先的线性质保



12 年材料工艺质保 12-year material and process warranty

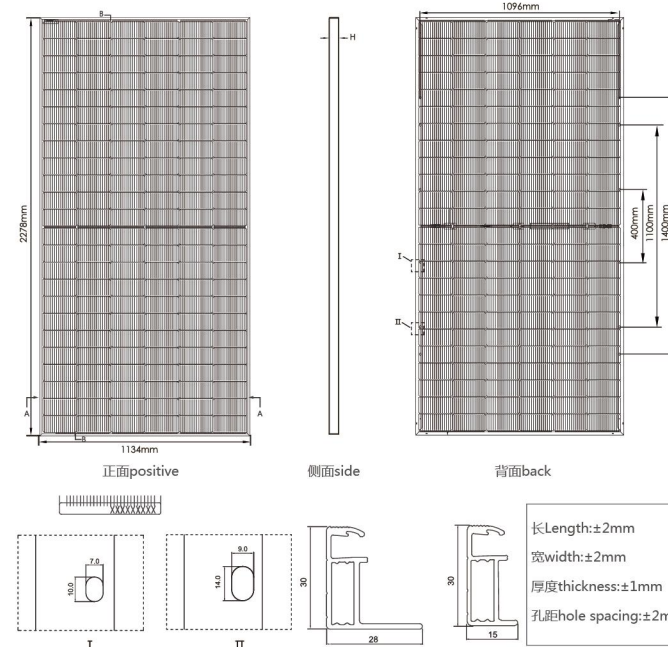
30 年线性质保 30-year linear warranty

优异质保承诺30年功率质保

0.4% 线性功率衰减

Excellent warranty commitment 30 years power warrant 0.4% linear power attenuation

Assembly drawing 装配图



Packaging standard 包装标准

平板车运输装车量(车型:高低板-车总长17.5米,高板长度3.5-4.5米)

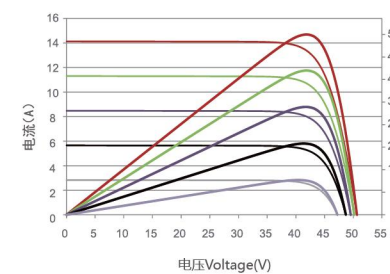
Transportation and loading capacity of flat car (model: high and low plate-the total length of the car is 17.5 meters, and the length of the high plate is 3.5-4.5 meters)

每托尺寸(mm)2334X1140x1249 36块/托,25托/车,900块/车

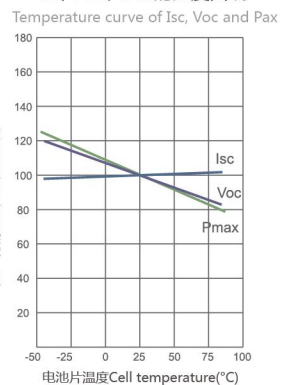
Size of each tray (mm) 2334X1140 x 1249 36 pieces/tray, 25 pieces/car, 900 pieces/car

Diagram 曲线图

电流电压及功率电压曲线(580W)
Current voltage and power voltage curve



Isc, Voc, Pmax的温度曲线
Temperature curve of Isc, Voc and Pmax



Structural parameters 结构参数

电池片类型Cell type	N型单晶硅电池片 N-type monocrystalline silicon cell
半片电池片数目Cell type	144(2x72)
组件尺寸Number of half cells	2278x1134x30mm
组件重量Component size	32kg
上表面玻璃材质 Upper surface glass material	2.0mm,高透镀膜玻璃 2.0mm, high permeability coated glass
上表面玻璃材质 Upper surface glass material	2.0mm,半钢化玻璃 2.0mm, semi-tempered glass
边框Frame	阳极氧化铝合金 Anodized aluminum alloy
接线盒Junction box	防护等级IP68 Protection grade IP68
输出导线Output wire	TUV 1x4.0mm ² 导线长度: (+):300mm,(-):200mm;或定制 Wire length: (+): 300mm (-): 200mm; or customized

Electrical performance parameters 电性能参数

Component model/组件型号	JKM560N-72HL4-BDV		JKM565N-72HL4-BDV		JKM570N-72HL4-BDV		JKM575N-72HL4-BDV		JKM580N-72HL4-BDV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power最大功率(Pmax)	560Wp	421Wp	565Wp	425Wp	570Wp	429Wp	575Wp	432Wp	580Wp	436Wp
Optimal working voltage最佳工作电压(Vmp)	41.95V	39.39V	42.14V	39.52V	42.29V	39.65V	42.44V	39.78V	42.59V	39.87V
Optimal working current最佳工作电流(Imp)	13.35A	10.69A	13.41A	10.75A	13.48A	10.81A	13.55A	10.87A	13.62A	10.94A
Open circuit voltage开路电压(Voc)	50.67V	48.13V	50.87V	48.32V	51.07V	48.51V	51.27V	48.70V	51.47V	48.89V
Short circuit current短路电流(Isc)	14.13A	11.41A	14.19A	11.46A	14.25A	11.50A	14.31A	11.55A	14.37A	11.60A
Component efficiency组件效率(%)	21.68%		21.87%		22.07%		22.26%		22.45%	
Operating temperature range工作温度范围(°C)	-40°C~+85°C									
Maximum system voltage最大系统电压	1500VDC (IEC)									
Maximum rated fuse current最大额定熔丝电流	30A									
Output power tolerance输出功率公差	0~+3%									
Temperature coefficient of maximum power最大功率的温度系数(Pmax)	-0.30%/°C									
Temperature coefficient of open circuit voltage开路电压的温度系数(voc)	-0.25%/°C									
Temperature coefficient of short-circuit current短路电流(sc)的温度系数(sc)	0.046%/°C									
Nominal battery operating temperature名义电池工作温度(NoCT)	45±2°C									
Reference. Double-sided factor参考双面因子	80±5%									

Double-sided power generation parameters (back gain) 双面发电参数(背面增益)

	5%	15%	25%
Maximum power最大功率(Pmax)	588Wp	644Wp	700Wp
Component efficiency组件效率(%)	22.77%	24.93%	27.10%
Maximum power最大功率(Pmax)	593Wp	650Wp	706Wp
Component efficiency组件效率(%)	22.97%	25.15%	27.34%
Maximum power最大功率(Pmax)	599Wp	656Wp	713Wp
Component efficiency组件效率(%)	23.17%	25.37%	27.58%
Maximum power最大功率(Pmax)	604Wp	661Wp	719Wp
Component efficiency组件效率(%)	23.37%	25.60%	27.82%
Maximum power最大功率(Pmax)	609Wp	667Wp	725Wp
Component efficiency组件效率(%)	23.57%	25.82%	28.07%

STC: 光照强度 1000W/m²
Light intensity

电池温度: 25°C
Battery temperature

大气质量=1.5
Air quality

NOCT: 光照强度 800W/m²
Light intensity

环境温度: 20°C
Ambient temperature

大气质量=1.5
Air quality

风速 1m/s
wind speed

* 功率测量误差 +/- 3%
Power measurement error +/- 3%