

## 产品系列 Products Series

# DMS N-TYPE 78HL4-BDV

605-625 Watt

DMS N-TYPE 78HL4-BDV 605-625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



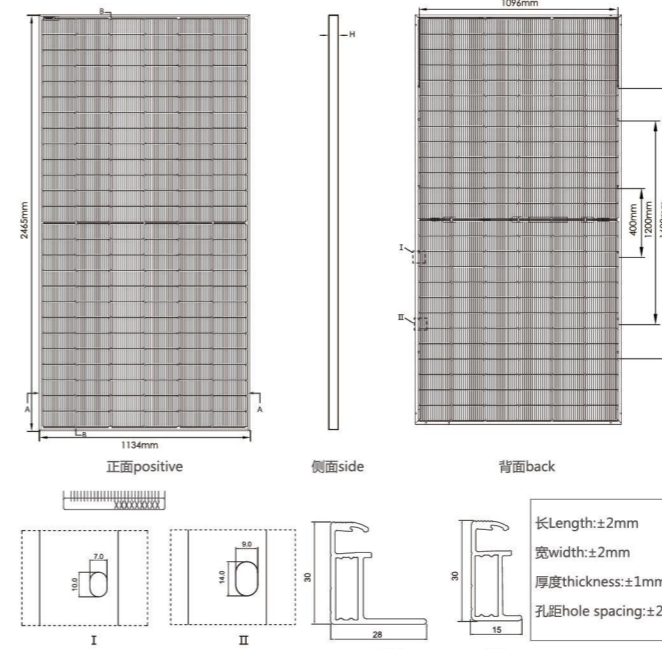
#### 载荷能力 Load capacity

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



## Assembly drawing 装配图

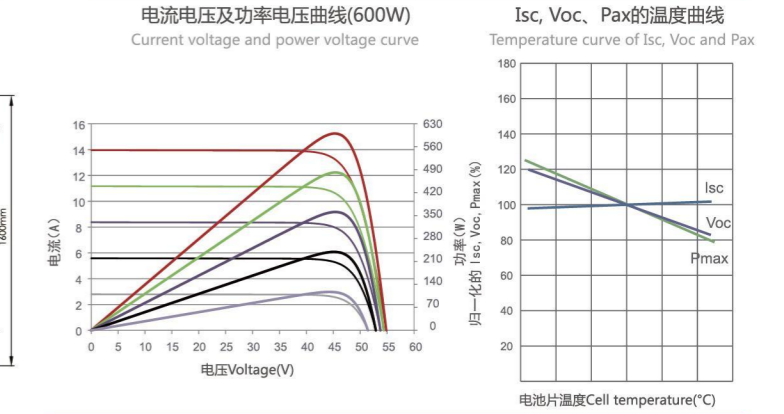


### Packaging standard 包装标准

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)2525X1140×1249 36块/托,22托/车,792块/车  
Size of each tray (mm) 2525X1140 × 1249 36 pieces/tray, 22 pieces/car, 792 pieces/car

## Diagram 曲线图



### 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	156(2×78)
组件尺寸Number of half cells	2465×1134×30mm
组件重量Component size	34.6kg
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 <sup>2</sup> 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	JKM605N-78HL4-BDV		JKM610N-78HL4-BDV		JKM615N-78HL4-BDV		JKM620N-78HL4-BDV		JKM625N-78HL4-BDV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power最大功率(Pmax)	605Wp	455Wp	610Wp	459Wp	615Wp	462Wp	620Wp	466Wp	625Wp	470Wp
Optimal working voltage最佳工作电压(mp)	45.42V	42.23V	45.60V	42.35V	45.77V	42.46V	45.93V	42.57V	46.10V	42.68V
Optimal working current最佳工作电流(mp)	13.32A	10.77A	13.38A	10.83A	13.44A	10.89A	13.50A	10.95A	13.56A	11.01A
Open circuit voltage开路电压(Voc)	55.17V	52.41V	55.31V	52.54V	55.44V	52.66V	55.58V	52.79V	55.72V	52.93V
Short circuit current短路电流(sc)	13.95A	11.26A	14.03A	11.33A	14.11A	11.39A	14.19A	11.46A	14.27A	11.52A
Component efficiency组件效率(%)	21.64%		21.82%		22.00%		22.18%		22.36%	
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)	635Wp	641Wp	646Wp	651Wp	656Wp
Component efficiency组件效率(%)	22.73%	22.91%	23.10%	23.29%	23.48%
Maximum power最大功率(Pmax)	696Wp	702Wp	707Wp	713Wp	719Wp
Component efficiency组件效率(%)	24.89%	25.10%	25.30%	25.51%	25.71%
Maximum power最大功率(Pmax)	756Wp	763Wp	769Wp	775Wp	781Wp
Component efficiency组件效率(%)	27.05%	27.28%	27.50%	27.73%	27.95%

STC: 光照强度 1000W/m<sup>2</sup>  
Light intensity

电池温度: 25°C  
Battery temperature

大气质量=1.5  
Air quality

NOCT: 光照强度 800W/m<sup>2</sup>  
Light intensity

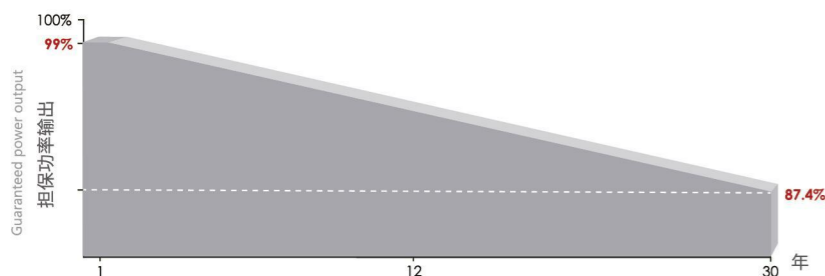
环境温度: 20°C  
Ambient temperature

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%

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



12 年材料工艺质保 30 年线性质保

12-year material and process warranty 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