

产品系列 Products Series



# DMS525-550W

## 182MBB Half-cell Module

模块的半电池配置由10BB PERC电池组装而成，具有更高的功率输出、更好的温度相关性、减少对能量产生的阴影影响、降低热点风险以及增强的机械负载耐受性等优点。

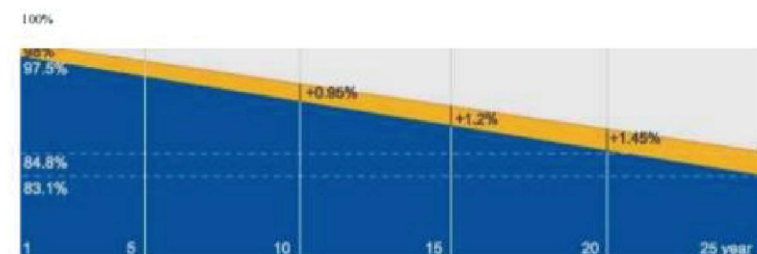
Assembled with 10BB PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.

### Superior Warranty 高级保修

12-year product warranty 12年产品保修

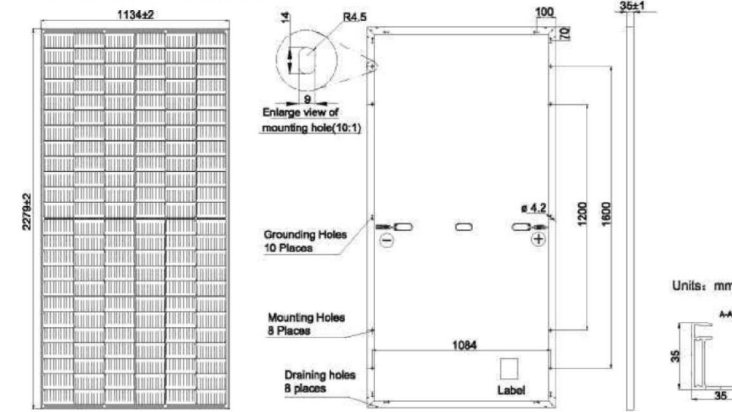
25-year linear power output warranty 25年线性功率输出保修

0.55% Annual Degradation Over 25years  
25年内每年退化0.55%



New linear power warranty ■ Standard module linear power warranty

## DMS525-550W



## Specifications 规格

Cell 电池	Mono 单晶
Weight 重量	28.6kg±3%
Dimensions 尺寸	2279±2mmx1134±2mm*35±1 mm
Cable Cross Section Size 电缆横截面尺寸	4mm <sup>2</sup> (IEC), 12AWG(UL)
No. of cells 电池片数量	144(6x24)
Junction Box 接线盒	IP68, 3 diodes
Connector 连接器	QC4.10(1000V) QC 4.10-35(1500V)
Cable Length (Including Connector) 电缆长度 (包括连接器)	Portrait 纵向: 300mm(+)/400mm(-); Landscape 横向: 1300mm(+)/1300mm(-)
Packaging Configuration 包装配置	31pcs/Pallet, 620pcs/40ft Container 31件/托盘, 620件/40英尺集装箱

## Electrical parameters at STC STC的电气参数

TYPE 类型	FMS525M-144	FMS530M-144	FMS535M-144	FMS540M-144	FMS545M-144	FMS550M-144
Rated Maximum Power(Pmax) [W] 额定最大功率 ( Pmax )	525	530	535	540	545	550
Open Circuit Voltage(Voc) [V] 开路电压 ( Voc )	49.15	49.3	49.45	49.6	49.75	49.9
Maximum Power Voltage(Vmp) [V] 最大功率电压 ( Vmp )	41.15	41.31	41.47	41.64	41.8	41.96
Short Circuit Current(Isc) [A] 短路电流 ( Isc )	13.65	13.72	13.79	13.86	13.93	14
Maximum Power Current(Imp) [A] 最大功率电流 ( Imp )	12.76	12.83	12.9	12.97	13.04	13.11
Module Efficiency [%] 模块效率	20.3	20.5	20.7	20.9	21.1	21.3
Power Tolerance 功率容差						0~+5W
Temperature Coefficient of Isc(ajsc)Isc温度系数						+0.045%/°C
Temperature Coefficient of Vbc(3_Voc) Vbc的温度系数 ( 3_Voc )						-0.275%/°C
Temperature Coefficient of Pmax(v_Pmp) Pmax温度系数 ( v_Pmp )						-0.350%/°C
STC	Irradiance 1000W/m <sup>2</sup> , cell temperature 25°C, AM1.5G 辐照度1000W/m <sup>2</sup> , 电池温度25°C, AM1.5G					

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.  
备注: 本目录中的电气数据并非指单个模块, 也不是报价的一部分。它们仅用于不同模块类型之间的比较

## Electrical parameters at NOCT NOCT电参数

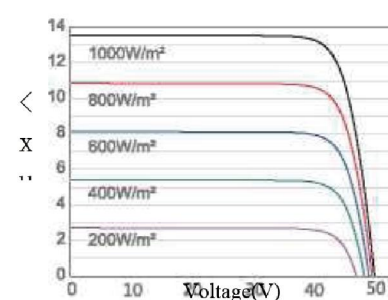
TYPE 类型	FMS525M-144	FMS530M-144	FMS535M-144	FMS540M-144	FMS545M-144	FMS550M-144
Rated Max Power(Pmax) 额定最大功率[W]	397	401	405	408	412	416
Open Circuit Voltage(Voc) [V] 开路电压	46.05	46.18	46.31	46.43	46.55	46.68
Max Power Voltage(Vmp) [V] 最大功率电压	38.36	38.57	38.78	38.99	39.2	39.43
Short Circuit Current(Isc) [A] 短路电流	10.97	11.01	11.05	11.09	11.13	11.17
Max Power Current(Imp) [A] 最大功率电流	10.35	10.39	10.43	10.47	10.51	10.55
NOCT	Irradiance 800W/m <sup>2</sup> , ambient temperature 20°C, wind speed 1m/s, AM1.5G 辐照度800W/m <sup>2</sup> , 环境温度20°C, 风速1m/s, AM1.5G					

## Operating conditions 操作条件

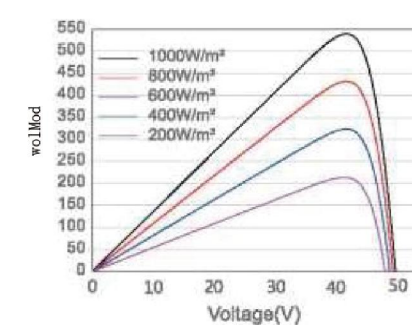
Maximum System Voltage 最大系统电压	1000V/1500V DC
Operating Temperature 工作温度	-40C~+85C
Maximum Series Fuse Rating 最大串联保险丝额定值	25A
Maximum Static Load,Front* 最大静载荷, 前面*	5400Pa(112lb/ft <sup>2</sup> )
Maximum Static Load,Back* 最大静载荷, 背面*	2400Pa(50lb/ft <sup>2</sup> )
NOCT	45±2C
Safety Class 安全等级	Class II
Fire Performance 防火性能	UL Type 1 UL类型1

## Premium Cells, Premium Modules 高级电池、高级模块

Current-Voltage Curve FMS-540M-144  
电流-电压曲线FMS-540M-144



Power-Voltage Curve FMS-540M-144  
电源电压曲线FMS-540M-144



Current-Voltage Curve FMS-540M-144  
电流-电压曲线FMS-540M-144

