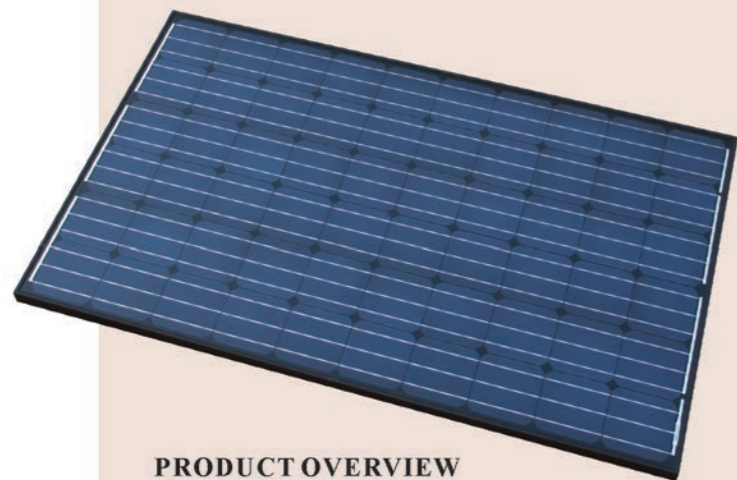


SOLAR PHOTOVOLTAIC MODULE 太阳能光伏组件

Black crystal modules 黑色单晶组件
RSM60-156M 235-260W



PRODUCT OVERVIEW
产品概述

RSM60-156P PV module is composed of 60pieces 156mm×156mm Mono-silicon solar cells in series. This type of module is certified according to IEC61215:2005 standard. It has characters of high efficiency. Long lifecycle, hail storm proof, and easy installation. products are widely used in roofing system, street lamps, surveillant/detective systems and devices, grid-connected PV power systems and equipments.

RSM60-156P 光伏组件是由60片156mm×156mm单晶硅电池片串联组成。产品性能按照IEC61215:2005国际标准进行生产，具有效率高、寿命长、抗风雪冰雹，以及安装简便等特性。产品广泛应用于屋顶系统、路灯、测量、监测系统、并网发电系统等。

MODULE CHARACTERISTICS
产品特点

High efficiency, beautiful appearance, tonal and consistent; with all black materials, module efficiency reaches to 16% which is the leader in manufacturing process.

组件高效、外观美丽整洁、色调一致；黑色封装材料组件整体转化效率达到16%，是行业制造工艺的领导者。

MODULE PRINCIPLE
产品原理

Using the traditional packaging lamination process with black material in mono-silicon cell.

采用单晶电池片搭配黑色材料使用传统封装层压工艺。

MODULE PURPOSE
产品用途

Applicable to the BIPV and the roof project.

适用于建筑一体化（BIPV）项目及屋顶计划项目中。

TECHNICAL PARAMETERS
主要技术参数

峰值功率(Wp) Rated Output(Wp)	260	255	250	245	240	235
最大功率点电压 Vmp(V) Maximum Power Voltage Vmp(V)	30.84	30.65	30.53	30.40	30.27	30.05
最大功率点电流 Imp(A) Maximum Power Current Imp(A)	8.43	8.32	8.19	8.06	7.93	7.82
开路电压 Voc(V) Open Circuit Voltage Voc(V)	38.02	37.85	37.71	37.46	37.29	37.10
短路电流 Isc(A) Short Circuit Current Isc(A)	8.86	8.79	8.71	8.63	8.54	8.46
开路电压温度系数 Temperature Coefficient of Voc						-0.32%/°C
短路电流温度系数 Temperature Coefficient of Isc						+0.06%/°C
功率温度系数 Temperature Coefficient of Power						-0.42%/°C
组件电池额定工作温度 NOCT						45±2°C
组件工作温度范围 Working Temperature Range						-40°C~+85°C
表面最大承重 Maximum Permitted Load						5400Pa
最大串联保险丝额定值 Maximum Series Fuse Rating						20A
最大系统电压 Maximum System Voltage						1000V
标准测试条件 Standard Test Conditions						1000W/m ² , 25°C, AM1.5

MATERIAL PARAMETERS
组件材料参数

玻璃含铁量(%) Glass Ferruginous Content	< 0.02 %
玻璃厚度 Glass Thickness	3.2mm
密封剂 Encapsulation materials	乙烯醋酸乙烯酯 Ethylene Vinyl Acetate (EVA)
背膜 Back Film	TPT / TPE等 TPT / TPE etc.
边框 Frame	电泳铝边框 / 阳极氧化铝边框等 Electrophoresis aluminum frame / Anodic oxidized aluminum frame etc.
电缆及连接器 Wire and Junction Box	4mm ² /MC4
长度 Length	1636mm
宽度 Width	992mm
厚度 Thickness	40mm 安装壁厚度30mm
重量 Weight	19.5kg
电池类型 Cell Type	单晶硅 Mono-Silicon
电池尺寸 Cell Dimension	156mmx156mm
电池数量 Cell Quantity	60pcs
排列 Cell Disposal	6x10ppm
接线盒密封等级 Sealed Class	Ip65

SOLAR PHOTOVOLTAIC MODULE 太阳能光伏组件

Double glass modules 双玻组件
RSM32-156P 120-135W



PRODUCT OVERVIEW
产品概述

RSM60-156P PV module is composed of 32 pieces 156mm×156mm Poly-silicon solar cells in series. This type of module is certified according to IEC61215:2005 standard. It has characters of high efficiency. Long lifecycle, hail storm proof, and easy installation.

RSM60-156P 光伏组件是由32片156mm×156mm多晶硅电池片串联组成。产品性能按照IEC61215:2005国际标准进行生产，具有效率高、寿命长、抗风雪冰雹，以及安装简便等特性。

MODULE CHARACTERISTICS
产品特点

High efficiency, beautiful appearance, aging resistance, mechanical load performance, solar cell is not easy to be cracked, greatly prolonged the service life; Using the BIPV junction box structure, structure design is concise and bright and install portable; It can base on the requires of customers' order to allocate and design the light transmission rate and provide 5%-70% transmission rate selection.

组件高效、美观，抗老化、机械载荷性能好、电池片不易隐裂，使用寿命大大延长；采用BIPV条型接线盒，结构设计简洁明亮，安装便携；可以依照客户订单要求对透光率进行分配设计，提供5%-70%的透光率的选择。

MODULE PRINCIPLE
产品原理

The glass -PVB (or EVA) film - wafer -PVB (or EVA) film glass; two pieces of tempered glass, the smooth side is the ultra clear glass.

由玻璃-PVB (或EVA) 胶膜-晶硅片-PVB (或EVA) 胶膜-玻璃；两片钢化玻璃，向光面是超白玻璃。

MODULE PURPOSE
产品用途

Meet the indoor lighting, suitable for BIPV and vegetable greenhouse project.

满足室内采光，适用于建筑一体化（BIPV）项目及蔬菜大棚项目中。

TECHNICAL PARAMETERS
主要技术参数

峰值功率(Wp) Rated Output(Wp)	135	130	125	120
最大功率点电压 Vmp(V) Maximum Power Voltage Vmp(V)	16.36	16.07	15.78	15.49
最大功率点电流 Imp(A) Maximum Power Current Imp(A)	8.25	8.09	7.92	7.75
开路电压 Voc(V) Open Circuit Voltage Voc(V)	19.94	19.68	19.41	19.14
短路电流 Isc(A) Short Circuit Current Isc(A)	8.78	8.65	8.51	8.38
开路电压温度系数 Temperature Coefficient of Voc				-0.38%/°C
短路电流温度系数 Temperature Coefficient of Isc				+0.04%/°C
功率温度系数 Temperature Coefficient of Power				-0.47%/°C
组件电池额定工作温度 NOCT				45±3°C
组件工作温度范围 Working Temperature Range				-40°C~+85°C
表面最大承重 Maximum Permitted Load				5400Pa
最大串联保险丝额定值 Maximum Series Fuse Rating				20A
最大系统电压 Maximum System Voltage				1000V
标准测试条件 Standard Test Conditions				1000W/m ² , 25°C, AM1.5

MATERIAL PARAMETERS
组件材料参数

玻璃含铁量(%) Glass Ferruginous Content	< 0.02 %
玻璃厚度 Glass Thickness	2.5mmX2
密封剂 Encapsulation materials	乙烯醋酸乙烯酯 Ethylene Vinyl Acetate (EVA)
背膜 Back Film	TPT / TPE等 TPT / TPE etc.
电缆及连接器 Wire and Junction Box	4mm ² /MC4
长度 Length	1630mm
宽度 Width	986mm
厚度 Thickness	5.8mm
重量 Weight	22kg
电池类型 Cell Type	多晶硅 Poly-Silicon
电池尺寸 Cell Dimension	156mmx156mm
电池数量 Cell Quantity	32pcs
排列 Cell Disposal	4x8ppm
接线盒密封等级 Sealed Class	Ip65