

Solar Technology Can Make Life Be Better!

我们致力于用柔性太阳能技术赋能万物，
让生活更美好！



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KAISHENG

开盛新能源

**PRODUCT
BROCHURE**

产品手册

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蝶飞系列
BUTTERFLY
SERIES





蝶飞系列

BUTTERFLY
SERIES

太阳能背包
太阳能发电纸系列
Air 储能系列

蝶飞系列
BUTTERFLY
SERIES



太阳能背包

SOLAR BACKPACK



使用环境 Using The Environment:



发电指示灯
Power Indicator Light



太阳能发电板
Solar Panel



内部空间宽大，配备数据连接线。
The interior is spacious and equipped with data connections.



外接充电口，使用更便捷
External charging port, more convenient to use

◎ 超大容积，最大可容纳 16 英寸笔记本电脑，优质尼龙面料，耐磨、防泼溅。

◎ 配套微型储能模组，搭配智能发电管理系统，支持主流快充快放协议。

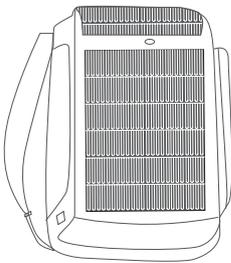
◎ 可为智能手机、运动手表、充电宝等设备提供紧急充电，延长续航时间。

◎ Large volume, can accommodate 16 inch notebook computers at most, high-quality nylon fabric, wear-resistant and splash proof.

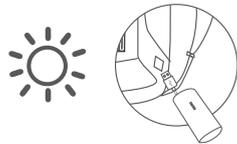
◎ It is equipped with micro energy storage module and intelligent power generation management system to support the mainstream fast charge and fast release protocol.

◎ It can provide emergency charging for smart phones, sports watches, power banks and other devices to extend the endurance time.

使用说明 Directions For Use



① 把产品放在太阳直射地方。
Place the product in direct sunlight.



② 把储能和充电口连接。
Connect the energy storage to the charging port.



③ 储能随时可以给移动设备供电。
Energy storage is ready to power mobile devices.

储能 Energy storage options 选配

优选储能 4000mAh 产品，
Preferred energy storage 4000mAh product.
或其他相匹配的储能产品。
Or other matching energy storage products.



2.3H

产品信息 Product Information

产品名称 Name	太阳能背包 Solar Backpack
技术参数 Specification	8.3W/7.7V/1.08A
规格参数 Measurement	460*320MM
产品重量 Weight	1.25KG
输出端口 Output USB	5V1A



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蝶飞系列
BUTTERFLY
SERIES



太阳能发电纸礼品系列

SOLAR POWER PANEL GIFT SERIES



使用环境 Using The Environment:



白天太阳能充电夜晚储能小夜灯亮起
Solar energy charges during the day and energy storage comes on at night.



搭配储能使用更强大
It is more powerful with energy storage.



小风扇实现了用电自由
The small fan enables free use of electricity.



搭配储能使用更强大
It is more powerful with energy storage.

◎ 采用高效柔性太阳能组件, 质量轻、可弯曲、轻薄如纸。

◎ High efficiency flexible solar modules are light, flexible and as thin as paper.

**储能
Energy
storage
options
选配**

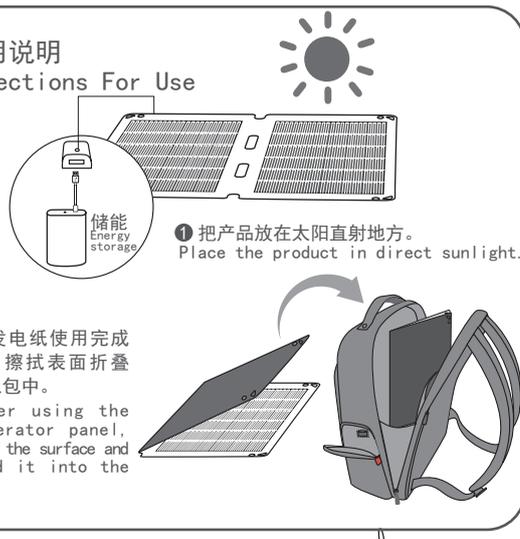
优选储能 4000mAh 产品,
Preferred energy storage 4000mAh product,
或其他相匹配的储能产品。
Or other matching energy storage products.



产品信息 Product Information

产品名称 Name	太阳能发电纸 Solar Power Panel
技术参数 Specification	6.5W/6.4V/1.02A
规格参数 Measurement	196*308MM
产品重量 Weight	0.13KG
输出端口 Output USB	5V

使用说明 Directions For Use



**储能
Energy
storage
options
选配**

优选储能 9600mAh 产品,
Preferred energy storage 9600mAh product,
或其他相匹配的储能产品。
Or other matching energy storage products.



产品信息 Product Information

产品名称 Name	太阳能发电纸 Solar Power Panel
技术参数 Specification	13W/6.4V/2.03A
规格参数 Measurement	折叠 308*195MM、展开 308*390MM
产品重量 Weight	0.26KG
输出端口 Output USB	5V



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蝶飞系列
BUTTERFLY
SERIES



太阳能发电纸系列

SOLAR POWER PANEL SERIES



使用环境 Using The Environment:



USB 输出充电更便捷
USB output charging
is more convenient



折叠方便不占用空间
Folding is convenient
and does not take up space

储能
Energy
storage
options
选配

优选储能 18000mAh 产品,
Preferred energy storage 18000mAh product,
或其他相匹配的储能产品。
Or other matching energy storage products.

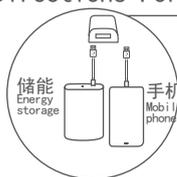


2.0H

产品信息 Product Information

产品名称 Name	太阳能发电纸 Solar Power Panel
技术参数 Specification	40W/24. 1V/1. 66A
规格参数 Measurement	750*633MM
产品重量 Weight	0. 8KG
输出端口 Output USB	USB+DC/DC

使用说明 Directions For Use

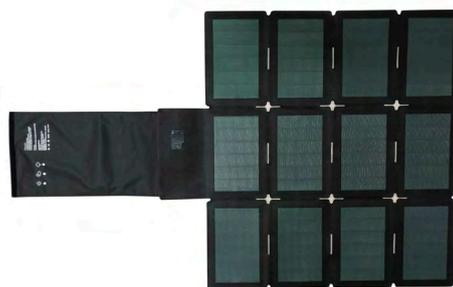


① 把产品放在太阳直射地方。
Place the product in direct sunlight.

② 发电纸使用完成后，
擦拭表面折叠放入包中。
After using the generator
paper, wipe the surface
and fold it into the bag.

先对折 First, folded in half

向上折 Fold up



储能
Energy
storage
options
选配

优选储能 20000mAh 产品,
Preferred energy storage 20000mAh product,
或其他相匹配的储能产品。
Or other matching energy storage products.



1.6H

产品信息 Product Information

产品名称 Name	太阳能发电纸 Solar Power Panel
技术参数 Specification	80W/24. 1V/3. 32A
规格参数 Measurement	1015*944MM
产品重量 Weight	1. 6KG
输出端口 Output USB	USB+DC/DC



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蝶飞系列
BUTTERFLY
SERIES



太阳能发电纸系列

SOLAR POWER PANEL SERIES



使用环境 Using The Environment:



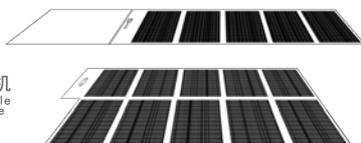
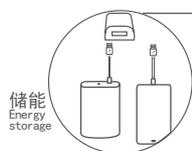
MC4 输出端口
MC4 output port



折叠方便不占用空间
Folding is convenient
and does not take up space

使用说明

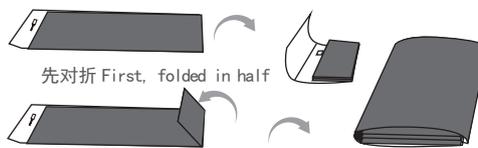
Directions For Use



① 把产品放在太阳直射地方。
Place the product in direct sunlight.



② 发电纸使用完成后，折叠收纳。
After using the generator paper, fold and store it.



向上折 Fold up

◎ 可为多种移动设备及储能电源提供充电，延长续航时间。

◎ Can provide charging for a variety of mobile devices and energy storage power supply, prolong the battery life.

储能
Energy storage options
选配

优选储能 40000mAh 产品，
Preferred energy storage 40000mAh product,
或其他相匹配的储能产品。
Or other matching energy storage products.



产品信息 Product Information

产品名称 Name	太阳能发电纸 Solar Power Panel
技术参数 Specification	120W/22.1V/5.43A
规格参数 Measurement	1945*518MM
产品重量 Weight	2.2KG
输出端口 Output	USB DC/MC4

储能
Energy storage options
选配

优选储能 50000mAh 产品，
Preferred energy storage 50000mAh product,
或其他相匹配的储能产品。
Or other matching energy storage products.



产品信息 Product Information

产品名称 Name	太阳能发电纸 Solar Power Panel
技术参数 Specification	240W/22.1V/10.86A
规格参数 Measurement	1945*1042MM
产品重量 Weight	4.2KG
输出端口 Output	USB MC4



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蝶飞系列
BUTTERFLY
SERIES

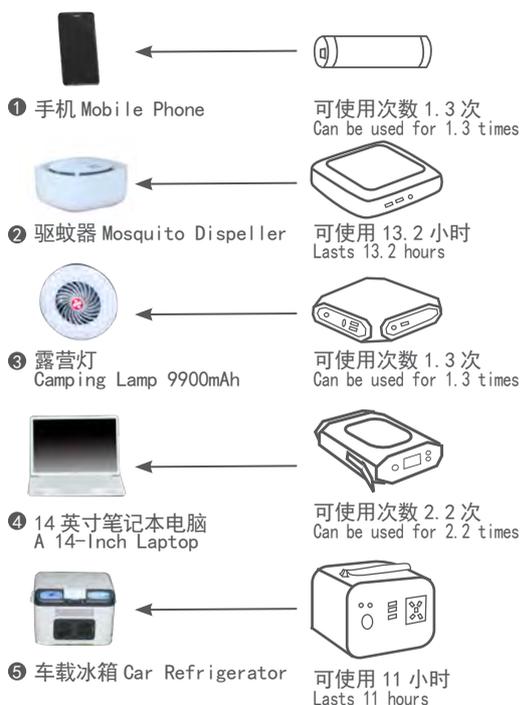


Air 储能系列

AIR ENERGY STORAGE SERIES



产品充电效率 Product Charging Efficiency



◎ 适配薄膜太阳能发电产品,可为多款移动设备充电,包括手机、电脑、平板、投影仪、扬声器、无人机等,让你的电子设备随时电力充足。

◎ 符合航空运输安全标准,申报简单方便,出行无忧。

◎ 采用 12 重全方位防护,来守护充电设备和用户的安全。其中包括对电池的保护、输出和输入保护三大方面。

◎ It is suitable for thin-film solar power generation products, which can charge a variety of mobile devices, including mobile phones, computers, tablets, projectors, speakers, UAVs, etc., so that your electronic devices can be fully powered at any time.

◎ It meets the safety standards for air transportation. It is easy to apply and worry free to travel.

◎ Adopt 12 layers of all-round protection to protect the charging Safety of electrical equipment and users. It includes battery protection, output and input protection.



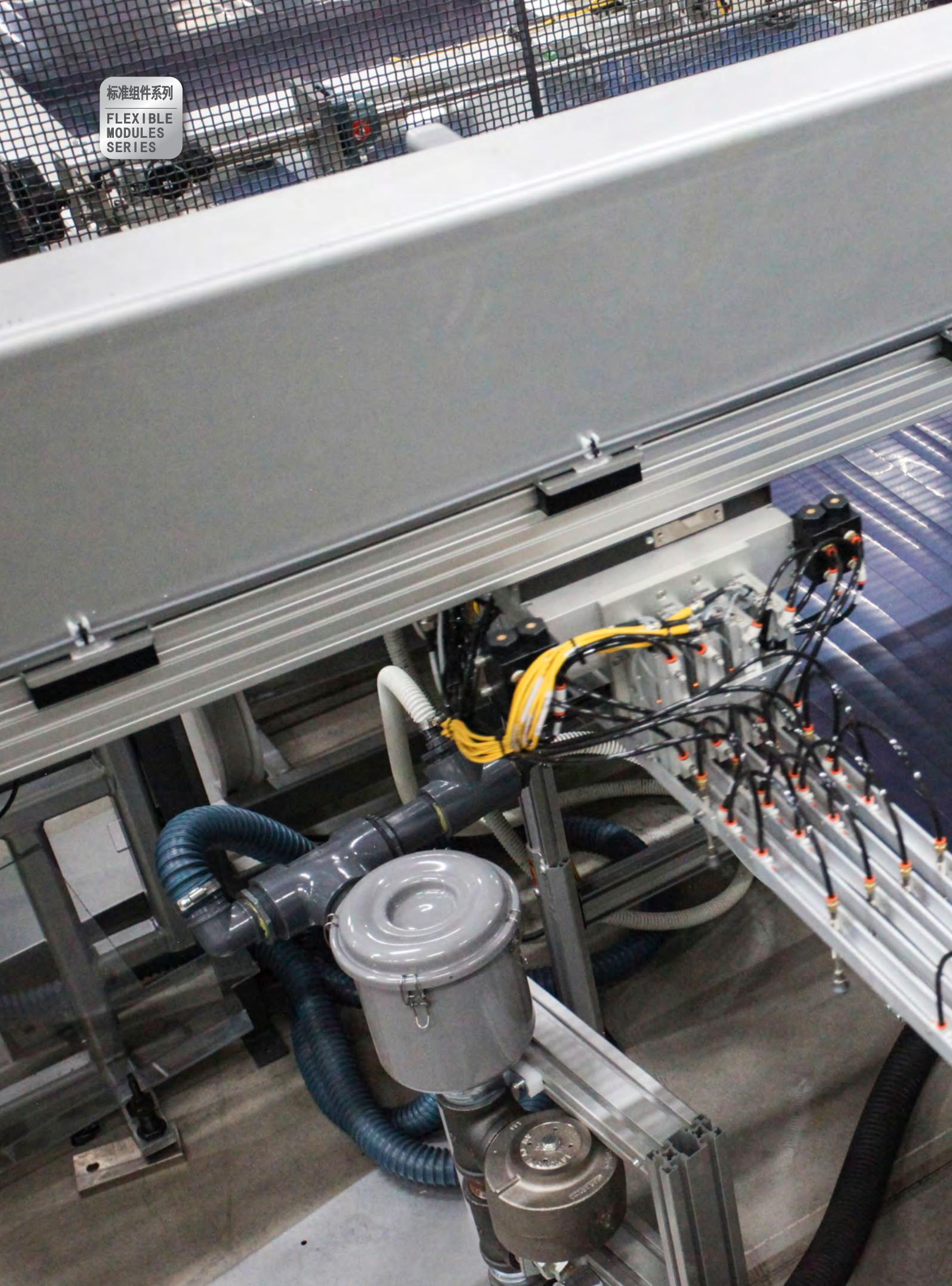
产品信息 Product Information

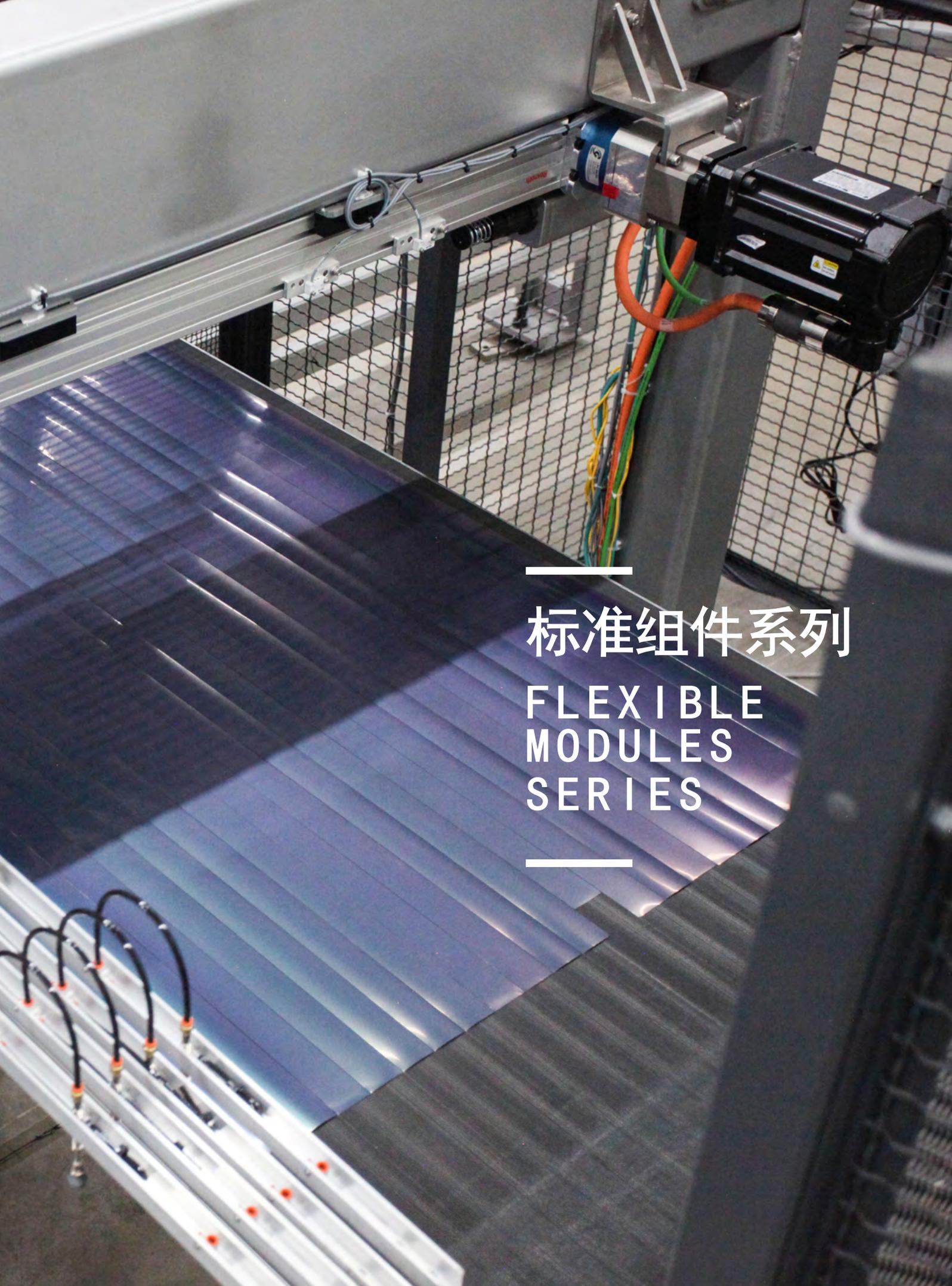
产品名称 Name	Air 05	Air 18	Air 20	Air 40	Air 500
规格参数 Measurement	30*102mm	116*116*25.6mm	127*122*27mm	167.5*145*54mm	200*176*146mm
电池容量 Battery Capacity	5000mAh±3%	18000mAh±3%	20400mAh±3%	38400mAh±3%	135200mAh±3%
输入端口 The input port	USB-C 5V/3A, 9V/2A 18W MAX	USB-C 5-20V/2A, 40W Max, 支持 PD 协议 DC 直流 5-30V/2A, 45W Max	USB-C 5-20/3A, 45W Max DC 直流 5-25/3A, 45W Max	USB-C 5-20/3A, 60W Max, 支持 PD 协议 DC 直流 5-32/4.5A, 90W Max	DC 输入: 充电电压范围: 17-25V
输出端口 Output USB	USB-A 5V/3A, 9V/2A, 12V/1.5A 18W MAX USB-C 5V/3A, 9V/2A, 12V/1.5A 18W MAX	USB-A 5V/2.4A, 9V/2A, 12V/1.5A, 18W Max, 兼容 QC3.0 USB-C 5-20V/3A, 60W Max, 支持 PD 协议 DC 直流 12V/13V/16.5V/19.5V, 3.5A, 65W Max	USB-A 5V/3A, 9V/2A, 12V/1.5A, 18W Max, 兼容 QC3.0 USB-C 5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/3A, 60W Max DC 直流 5-25/5A, 100W Max AC 交流 220V, 50Hz, 100W Max	USB-A 5V/3A, 9V/2A, 12V/1.5A, 18W Max, 兼容 QC3.0 USB-C 5-20V/3A, 60W Max, 支持 PD 协议 DC 直流 5-60V/8A, 150W Max AC 交流 220V, 50Hz, 120W Max	AC 输出: 220-240V 50/60Hz 纯正弦波 DC 输出: DC5 5 端口 DC12V5A, 点烟器接口 DC12V12A USB-A: USB1 5V/2.4A, USB2 5V/2.4A, USB3 QC3.0 5-12V, 18W Max USB-C: 输出 5-20V, 60W MAX 支持 PD3.0
产品重量 Weight	150g	380g	630g	1415g	5900g



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标准组件系列
FLEXIBLE
MODULES
SERIES



The image shows a close-up of industrial machinery. A blue conveyor belt with a ribbed surface runs diagonally across the frame. Above the belt, there is a complex assembly of metal parts, including a motor and various cables. A black motor is mounted on a metal frame, with several colored cables (orange, green, yellow) connected to it. The background is a metal mesh safety fence. The overall scene is brightly lit, highlighting the metallic surfaces and the blue of the conveyor belt.

标准组件系列

FLEXIBLE
MODULES
SERIES



KXSF N36

			KXSF N36-70	KXSF N36-75	KXSF N36-80
额定功率 Nominal Power	P_{MPP}	[W]	70	75	80
有效面积效率 Aperture Efficiency	η	[%]	14.2	15.2	16.2
峰值电压 Maximum Power Voltage	V_{MPP}	[V]	17.8	18.3	18.8
峰值电流 Maximum Power Current	I_{MPP}	[A]	3.93	4.09	4.26
开路电压 Open Circuit Voltage	V_{OC}	[V]	22.6	23.3	23.8
短路电流 Short Circuit Current	I_{SC}	[A]	4.65	4.70	4.74
最大保险丝额定电流 Maximum Series Fuse Rating		[A]	10		
最大系统电压 Maximum System Voltage		[V]	1000		
标准测试条件: 太阳辐射强度为 1000W/m ² , 电池温度在 25°C, AM1.5G 光谱 Standard Test Conditions :1000W/m ² , 25°C Cell temperature, AM 1.5 spectrum					
温度系数 THERMAL CHARACTERISTICS					
电池额定工作温度 NOCT		[°C]	48		
峰值功率的温度系数 Temperature Coefficient Of P_{MPP}		[%/°C]	-0.38		
开路电压的温度系数 Temperature Coefficient Of V_{OC}		[%/°C]	-0.28		
短路电流的温度系数 Temperature Coefficient Of I_{SC}		[%/°C]	0.008		
电池工作温度区间 Cell Temperature Operating Range		[°C]	-40~85		
物理和机械规格 PHYSICAL AND MECHANICAL SPECIFICATIONS					
长 Length			1709mm		
宽 Width			348mm		
厚 (接线盒, 组件) Thickness, Maximum at J-Box*			20mm		
重量 (无背面粘接胶) Weight (Module without adhesive)			1.2kg		
重量 (带背面粘接胶) Weight (Module with adhesive)			1.8kg		
重量 / 面积 (无背面粘接胶) Weight/Area (Module without adhesive)			2.0kg/m ²		
重量 / 面积 (带背面粘接胶) Weight/Area (Module with adhesive)			3.0kg/m ²		
芯片类型 Cell Type			铜铟镓硒 CIGS		



KXSF N56

			KXSF N56-110	KXSF N56-115	KXSF N56-120	KXSF N56-125
额定功率 Nominal Power	P _{MPP}	[W]	110	115	120	125
有效面积效率 Aperture Efficiency	η	[%]	14.3	15.0	15.6	16.3
峰值电压 Maximum Power Voltage	V _{MPP}	[V]	27.8	28.3	28.8	29.3
峰值电流 Maximum Power Current	I _{MPP}	[A]	3.96	4.06	4.16	4.27
开路电压 Open Circuit Voltage	V _{OC}	[V]	35.4	36.0	36.5	37.0
短路电流 Short Circuit Current	I _{SC}	[A]	4.66	4.69	4.71	4.75
最大保险丝额定电流 Maximum Series Fuse Rating		[A]	10			
最大系统电压 Maximum System Voltage		[V]	1000			
标准测试条件: 太阳辐射强度为 1000W/m ² , 电池温度在 25°C, AM1.5G 光谱 Standard Test Conditions :1000W/m ² , 25°C Cell temperature, AM 1.5 spectrum						
温度系数 THERMAL CHARACTERISTICS						
电池额定工作温度 NOCT		[°C]	48			
峰值功率的温度系数 Temperature Coefficient Of P _{MPP}		[%/°C]	-0.38			
开路电压的温度系数 Temperature Coefficient Of V _{OC}		[%/°C]	-0.28			
短路电流的温度系数 Temperature Coefficient Of I _{SC}		[%/°C]	0.008			
电池工作温度区间 Cell Temperature Operating Range		[°C]	-40~85			
物理和机械规格						
长 Length			2583mm			
宽 Width			348mm			
厚 (接线盒, 组件) Thickness, Maximum at J-Box*			20mm			
重量 (无背面粘接胶) Weight (Module without adhesive)			1.7kg			
重量 (带背面粘接胶) Weight (Module with adhesive)			2.5kg			
重量 / 面积 (无背面粘接胶) Weight/Area (Module without adhesive)			1.9kg/m ²			
重量 / 面积 (带背面粘接胶) Weight/Area (Module with adhesive)			2.8kg/m ²			
芯片类型 Cell Type			铜铟镓硒 CIGS			

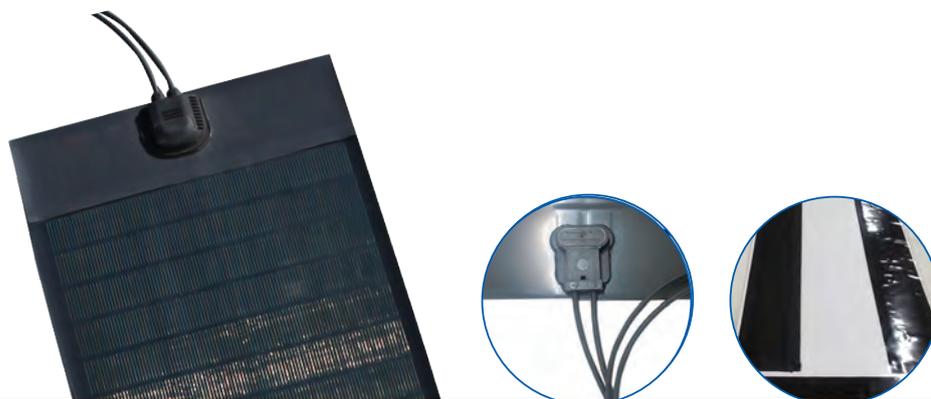


KXSF M36

			KXSF M36-210	KXSF M36-220	KXSF M36-230	KXSF M36-240	KXSF M36-250
额定功率 Nominal Power	P _{MPP}	[W]	210	220	230	240	250
有效面积效率 Aperture Efficiency	η	[%]	14.2	14.8	15.5	16.2	16.9
峰值电压 Maximum Power Voltage	V _{MPP}	[V]	17.5	18.2	18.8	19.4	20.0
峰值电流 Maximum Power Current	I _{MPP}	[A]	11.99	12.12	12.25	12.38	12.52
开路电压 Open Circuit Voltage	V _{OC}	[V]	22.7	23.3	23.8	24.2	24.7
短路电流 Short Circuit Current	I _{SC}	[A]	13.90	13.95	14.00	14.04	14.08
最大保险丝额定电流 Maximum Series Fuse Rating		[A]	25				
最大系统电压 Maximum System Voltage		[V]	1000				
标准测试条件: 太阳辐射强度为 1000W/m ² , 电池温度在 25°C, AM1.5G 光谱 Standard Test Conditions : 1000W/m ² , 25°C Cell temperature, AM 1.5 spectrum							
温度系数 THERMAL CHARACTERISTICS							
电池额定工作温度 NOCT		[°C]	48				
峰值功率的温度系数 Temperature Coefficient Of P _{MPP}		[%/°C]	-0.38				
开路电压的温度系数 Temperature Coefficient Of V _{OC}		[%/°C]	-0.28				
短路电流的温度系数 Temperature Coefficient Of I _{SC}		[%/°C]	0.008				
电池工作温度区间 Cell Temperature Operating Range		[°C]	-40~85				
物理和机械规格							
长 Length			1709mm				
宽 Width			973mm				
厚 (接线盒, 组件) Thickness, Maximum At J-Box*			20mm				
重量 (无背面粘接胶) Weight (Module without adhesive)			2.9kg				
重量 (带背面粘接胶) Weight (Module with adhesive)			4.0kg				
重量 / 面积 (无背面粘接胶) Weight/Area (Module without adhesive)			1.7kg/m ²				
重量 / 面积 (带背面粘接胶) Weight/Area (Module with adhesive)			2.4kg/m ²				
芯片类型 Cell Type			铜铟镓硒 CIGS				



KXSF M56								
			KXSF M56-340	KXSF M56-350	KXSF M56-360	KXSF M56-370	KXSF M56-380	KXSF M56-390
额定功率 Nominal Power	P _{MPP}	[W]	340	350	360	370	380	390
有效面积效率 Aperture Efficiency	η	[%]	14.7	15.2	15.6	16.0	16.5	16.9
峰值电压 Maximum Power Voltage	V _{MPP}	[V]	29.3	29.6	29.8	30.1	30.3	30.5
峰值电流 Maximum Power Current	I _{MPP}	[A]	11.59	11.83	12.07	12.31	12.55	12.80
开路电压 Open Circuit Voltage	V _{OC}	[V]	37.0	37.2	37.3	37.6	37.6	37.8
短路电流 Short Circuit Current	I _{SC}	[A]	13.70	13.78	13.88	13.98	14.1	14.31
最大保险丝额定电流 Maximum Series Fuse Rating		[A]	25					
最大系统电压 Maximum System Voltage		[V]	1000					
标准测试条件: 太阳辐射强度为 1000W/m ² , 电池温度在 25°C, AM1.5G 光谱 Standard Test Conditions :1000W/m ² , 25°C Cell temperature, AM 1.5 spectrum								
温度系数 THERMAL CHARACTERISTICS								
电池额定工作温度 NOCT			[°C]			48		
峰值功率的温度系数 Temperature Coefficient Of P _{MPP}			[%/°C]			-0.38		
开路电压的温度系数 Temperature Coefficient Of V _{OC}			[%/°C]			-0.28		
短路电流的温度系数 Temperature Coefficient Of I _{SC}			[%/°C]			0.008		
电池工作温度区间 Cell Temperature Operating Range			[°C]			-40~85		
物理和机械规格 PHYSICAL AND MECHANICAL SPECIFICATIONS								
长 Length			2583mm					
宽 Width			973mm					
厚 (接线盒, 组件) Thickness, Maximum at J-Box*			20mm					
重量 (无背面粘接胶) Weight (Module without adhesive)			4.3kg					
重量 (带背面粘接胶) Weight (Module with adhesive)			5.9kg					
重量 / 面积 (无背面粘接胶) Weight/Area (Module without adhesive)			1.7kg/m ²					
重量 / 面积 (带背面粘接胶) Weight/Area (Module with adhesive)			2.4kg/m ²					
芯片类型 Cell Type			铜铟镓硒 CIGS					



KXSF W36

			KXSF W36-280	KXSF W36-290	KXSF W36-300	KXSF W36-310	KXSF W36-320
额定功率 Nominal Power	P_{MPP}	[W]	280	290	300	310	320
有效面积效率 Aperture Efficiency	η	[%]	14.2	14.7	15.2	15.7	16.2
峰值电压 Maximum Power Voltage	V_{MPP}	[V]	38.1	38.3	38.4	38.5	38.6
峰值电流 Maximum Power Current	I_{MPP}	[A]	7.35	7.57	7.81	8.04	8.29
开路电压 Open Circuit Voltage	V_{OC}	[V]	47.3	48.0	48.1	48.2	48.3
短路电流 Short Circuit Current	I_{SC}	[A]	8.91	9.01	9.10	9.21	9.34
最大保险丝额定电流 Maximum Series Fuse Rating		[A]	25				
最大系统电压 Maximum System Voltage		[V]	1000				
标准测试条件: 太阳辐射强度为 1000W/m ² , 电池温度在 25°C, AM1.5G 光谱 Standard Test Conditions : 1000W/m ² , 25°C Cell temperature, AM 1.5 spectrum							
温度系数 THERMAL CHARACTERISTICS							
电池额定工作温度 NOCT		[°C]	48				
峰值功率的温度系数 Temperature Coefficient Of P_{MPP}		[%/°C]	-0.38				
开路电压的温度系数 Temperature Coefficient Of V_{OC}		[%/°C]	-0.28				
短路电流的温度系数 Temperature Coefficient Of I_{SC}		[%/°C]	0.008				
电池工作温度区间 Cell Temperature Operating Range		[°C]	-40~85				
物理和机械规格 PHYSICAL AND MECHANICAL SPECIFICATIONS							
长 Length			1709mm				
宽 Width			1292mm				
厚 (接线盒, 组件) Thickness, Maximum at J-Box*			20mm				
重量 (无背面粘接胶) Weight (Module without adhesive)			3.7kg				
重量 (带背面粘接胶) Weight (Module with adhesive)			4.9kg				
重量 / 面积 (无背面粘接胶) Weight/Area (Module without adhesive)			1.7kg/m ²				
重量 / 面积 (带背面粘接胶) Weight/Area (Module with adhesive)			2.2kg/m ²				
芯片类型 Cell Type			铜铟镓硒 CIGS				



KXSF W56

			KXSF W56-440	KXSF W56-460	KXSF W56-480	KXSF W56-490	KXSF W56-500	KXSF W56-510
额定功率 Nominal Power	P_{MPP}	[W]	440	460	480	490	500	510
有效面积效率 Aperture Efficiency	η	[%]	14.3	15.0	15.6	15.9	16.3	16.6
峰值电压 Maximum Power Voltage	V_{MPP}	[V]	59.4	59.6	59.9	60.0	60.2	60.2
峰值电流 Maximum Power Current	I_{MPP}	[A]	7.41	7.72	8.02	8.16	8.31	8.47
开路电压 Open Circuit Voltage	V_{oc}	[V]	74.6	74.8	74.9	75.0	75.1	75.2
短路电流 Short Circuit Current	I_{sc}	[A]	8.84	9.09	9.20	9.25	9.32	9.42
最大保险丝额定电流 Maximum Series Fuse Rating		[A]	25					
最大系统电压 Maximum System Voltage		[V]	1000					
标准测试条件: 太阳辐射强度为 1000W/m ² , 电池温度在 25°C, AM1.5G 光谱 Standard Test Conditions : 1000W/m ² , 25°C Cell temperature, AM 1.5 spectrum								
温度系数 THERMAL CHARACTERISTICS								
电池额定工作温度 NOCT		[°C]	48					
峰值功率的温度系数 Temperature Coefficient Of P_{MPP}		[%/°C]	-0.38					
开路电压的温度系数 Temperature Coefficient Of V_{oc}		[%/°C]	-0.28					
短路电流的温度系数 Temperature Coefficient Of I_{sc}		[%/°C]	0.008					
电池工作温度区间 Cell Temperature Operating Range		[°C]	-40~85					
物理和机械规格 PHYSICAL AND MECHANICAL SPECIFICATIONS								
长 Length			2583mm					
宽 Width			1292mm					
厚 (接线盒, 组件) Thickness, Maximum At J-Box*			20mm					
重量 (无背面粘接胶) Weight (Module without adhesive)			5.7kg					
重量 (带背面粘接胶) Weight (Module with adhesive)			7.5kg					
重量 / 面积 (无背面粘接胶) Weight/Area (Module without adhesive)			1.7kg/m ²					
重量 / 面积 (带背面粘接胶) Weight/Area (Module with adhesive)			2.2kg/m ²					
芯片类型 Cell Type			铜钢镓硒 CIGS					

标准组件系列

FLEXIBLE
MODULES
SERIES



柔性组件

FLEXIBLE MODULES



◎ 16%的量产平均组件有效面积转化效率,厚1.7mm,重2kg/m²;1.7m到6m尺寸多样,可定制;

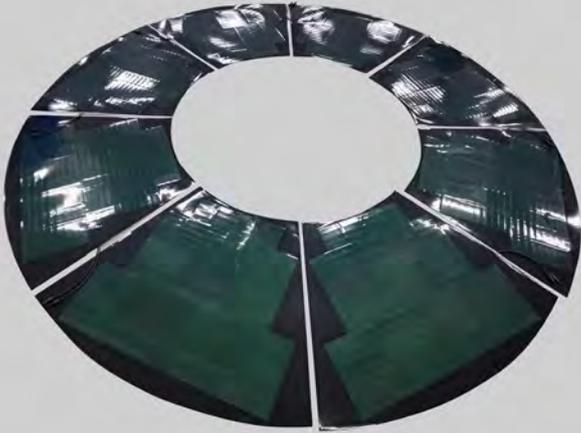
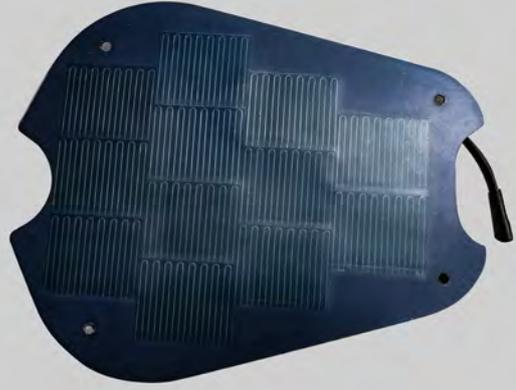
◎ 组件安装简易,直接粘贴,无需额外固定穿孔,压载、BOS大幅下降;

◎ 嵌入式旁路二极管将遮阴衰减降至最低,适用分布式发电;

◎ 16% average effective area conversion efficiency of mass production components, 1.7mm thick and 2kg/m² heavy; Various sizes from 1.7m to 6m can be customized;

◎ The components are easy to install and directly pasted without additional fixing and perforation, and the ballast and BOS are greatly reduced;

◎ Embedded bypass diode minimizes shading attenuation and is applicable to distributed generation;



定制化柔性组件 CUSTOMIZED FLEXIBLE MODULES

© 可根据产品外观与功能需求，定制柔性组件。高效太阳能柔性组件具有轻、薄、柔等特点，能够完美的融入到弧面、多边、曲面产品设计中，已在交通、海洋、野外等多种应用场景下成功推广应用。

© Flexible components can be customized according to product appearance and functional requirements. The high-efficiency solar flexible module has the characteristics of light, thin and flexible, and can be perfectly integrated into the design of curved surface, multilateral and curved surface products. It has been successfully promoted and applied in various application scenarios such as transportation, ocean and field.

项目案例

PROJECT CASE





系统解决方案

系列 SYSTEM
SOLUTION
SERIES

系统解决方案系列

SYSTEM SOLUTION SERIES

太阳能观光车

SOLAR SIGHTSEEING CAR

太阳能车棚

SOLAR CAR SHED

浅海大型浮标

SHALLOW WATER BUOY

野生动物监测解决方案

SOLAR MONITORING SYSTEM-WILDLIFE

PARK USING

太阳能阳光房

SOLAR HUT





 **KAISHENG**



太阳能观光车

SOLAR SIGHTSEEING CAR



◎ 搭载高效太阳能组件, 安装于车顶上, 通过光电转化和储能系统、智能控制系统等, 将太阳能转化为电能, 给车辆充电, 可实现离网辅助供电。

◎ It is equipped with high-efficiency solar modules, installed on the roof, and converts solar energy into electric energy through photoelectric conversion, energy storage system, intelligent control system, etc. to charge the vehicle, which can realize off grid auxiliary power supply.

产品信息 Product Information

车型	14 座
组件数量	3 (片)
产品规格	5510mm*1525mm*2050mm
最大工作电压	30.5V
最高车速	30km/h
最大工作电流	11.7A
系统电压	72V
发电量	日均 1.5 度
组件规格	370mm*2600mm
组件安装方式	粘贴
组件功率	360W



太阳能车棚

SOLAR CAR SHED



◎ 搭载高效太阳能组件, 可安装于各种形式车棚支架上, 建设规模可大可小。既能为车辆遮风挡雨, 又能为车辆充电、灯光照明、并网发电。

◎ Equipped with high-efficiency solar modules, it can be installed on various types of shed supports, and the construction scale can be large or small. It can not only shelter the vehicle from the wind and rain, but also charge the vehicle, light and generate power through grid connection.

产品信息 Product Information

产品规格	5.5m*3m
组件数量	8 (片)
产品材质	钢架
最大工作电压	248V
组件规格	370mm*2600mm
最大工作电流	3.9A
组件功率	960W (可扩展)
组件安装方式	粘贴

以上相关参数以实际实施项目为准



浅海大型浮标

SHALLOW WATER BUOY



◎ 浮标系统是海洋观测网体系能够提供原位在线数据观测的最有效的观测方式。大型浮标观测准确、要素齐全，并能够根据需要定制化增减传感器。造价昂贵、维护成本高等现状，限制了大型浮标的大规模应用。

◎ 基于柔性薄膜高效太阳能电池芯片，根据浮标外观条件，定制化设计制造能够充分利用浮标立柱、承台等面积的异形组件。采用直接贴装的形式进行敷设，安装更换简单，便于维护。

◎ Buoy system is the most effective way of ocean observation network system to provide in-situ online data observation. Large buoys have accurate observation, complete elements, and can be customized to add or subtract sensors. The high cost and maintenance cost limit the large-scale application of large buoys.

◎ Based on flexible thin film high efficiency solar cell chip, according to the appearance conditions of the buoy, customized design and manufacture of special-shaped components that can make full use of buoy column, cap and other areas. Adopt the form of direct mounting for laying, easy installation and replacement, easy maintenance.

产品信息 Product Information

浮标规格	长 10m、宽 10m
组件类型	高效柔性薄膜太阳能组件（可定制）
组件铺设功率	3179W
观测设备供电	支持
安装方式	粘贴

以上相关参数以实际实施项目为准

系统解决方案

系列 SYSTEM
SOLUTION
SERIES



野生动物监测 解决方案

SOLAR MONITORING SYSTEM-WILDLIFE PARK USING



© 16.5W 高效太阳能组件, 配备红外自触发野保相机, 可实现红外动作捕捉功能; 高效太阳能组件还可为监测系统持续供电, 实现对多种应用场景的温度湿度光照压力北斗定位、4G 通讯等数据监测和采集, 为野生动物保护工作提供可靠的信息支撑。

© 16.5W high-efficiency solar module, equipped with infrared self-triggered wild protection camera, can achieve infrared motion capture function; The high-efficiency solar module can also provide continuous power supply for the monitoring system, realizing the monitoring and collection of temperature and humidity, light, pressure, Beidou positioning, 4G communication and other data in various application scenarios, providing reliable information support for wildlife protection.

产品信息 Product Information

组件类型	铜钢镓硒 (CIGS)
产品规格	线缆: 1500mm
组件功率	16.5±5%W
最大工作电压	8.9±5%V
最大工作电流	1.853±5%A
防水航空接头	2Pin 插头, LX13-2 芯
安装方式	可伸缩绑缚固定模式

相机参数 Camera Parameters

产品规格	高 419mm* 宽 153mm* 厚 89mm
产品颜色	迷彩 / 黑
拍照模式	拍照、录像、混合拍摄 (录像的同时拍照)
传感器	Sony CMOS 星光级低照度传感器
镜头	4mm 高清
补光	940nm 隐光 Smart IR, 最大补光距离 25m
充电方式	太阳能面板充电或 DC 充电
外部接口	太阳能防水接口 x1, 5PIN 防水 RS232 透传串口 +DC 充电 x1, 天线接口 x1
内部接口	USBx1, HDMI x1, SDx1, SIMx1
环保标准	ROHS

以上相关参数以实际实施项目为准



太阳能阳光房

SOLAR HUT



◎ 搭载 3500W 高效太阳能组件，标准光照日均发电量最高达 12 度，可满足空调、照明、电子产品等应用，多余电量可以并入市电。

◎ 舱门采用液压开闭方式，灵活自如，开闭状态都能达到发电效果。

◎ Equipped with 3500W high-efficiency solar modules, the daily average power generation of standard lighting is up to 12 degrees, which can meet the applications of air conditioning, lighting, electronic products, etc., and the excess power can be incorporated into the municipal power.

◎ The cabin door adopts hydraulic opening and closing mode, which is flexible and can achieve power generation effect in both opening and closing states.



产品信息 Product Information

产品规格	长 6m* 宽 3m* 高 3m (上盖闭合状态)
组件规格	370mm*2600mm
产品材质	钢架
电池容量	9.6kWh (可逆变成交流 220V 使用)
补充供电	可接入市电
组件功率	3500W
配置	1 匹空调、照明、插座
日发电量	约 12 度 (可离 / 并网使用)
门窗	电致幻玻璃 (通透和不通透可控)
组件安装方式	粘贴
箱体重量	2 吨

以上相关参数以实际实施项目为准

太阳能智能座椅 SOLAR SMART SEAT



◎ 高科技智能座椅，整体流线型设计，简洁时尚。外侧设置照明灯带，顶端搭配 60W 大功率发电组件，具有 USB 接口充电，蓝牙、音响、WiFi 无线上网、夜间照明等强大功能。

◎ High tech intelligent seat, overall streamlined design, simple and fashionable. The outside is equipped with a lighting strip, and the top is equipped with a 60W high-power power generation module, which has powerful functions such as USB interface charging, Bluetooth, audio, WiFi wireless internet access, night lighting, etc.

太阳能路灯 SOLAR STREET LIGHT



◎ 太阳能路灯完全实现自供电，应用于离网环境下，适用于安装在偏僻地点且不受停电影响。

◎ 贴合圆柱形灯杆的柔性组件安装方式，更具美感，抗风能力强且安全防盗。

◎ The solar street lamps are fully self powered and applied in the off grid environment. They are suitable for installation in remote places and are not affected by power failure.

◎ The flexible component installation method fitting the cylindrical lamp pole has more aesthetic feeling, strong wind resistance and security.

以上相关参数以实际实施项目为准

其它系列

OTHER SERIES

太阳能智能座椅

SOLAR SMART SEAT

太阳能路灯

SOLAR STREET LIGHT