

# 晶体硅可弯曲太阳能电池组件 Crystalline silicon can bend solar panels

## 专利号 Patent no. : ZL 2013 1 0370803.1

可安装于：房车、新能源电动车、太阳能路灯、公交站台等。

It can be installed in: rv, new energy electric car, solar street lamp, bus platform, etc.

合田新能源自主研发生产的晶体硅半柔性可弯曲太阳能电池板，使用钢化玻璃封装，既可以随意弯曲，又具有与普通太阳能电池板一样的表面耐强力冲击性能，还具有普通电池板不具备的特殊性能——可以防止电池片在运输和使用过程中因振动产生的隐裂，适合于各种曲面使用，可以弯曲成 S 形或弧形，扩大了电池板的使用范围，也弥补了以往太阳能电池板只有直线没有曲线的美学缺陷。

In field of new energy independent research and development production of crystalline silicon half flexible flexible solar panels, use toughened glass packaging, can be arbitrary bending, but also has the same surface as ordinary solar panels strong impact resistance, also has the common panels do not have special performance, can prevent the battery piece because of the vibration in the process of transport and use cracked, suitable for all kinds of curved surface, can be bent into S shape or arc, enlarge the using range of the panels, also make up for past solar panels line no curve only aesthetic defects.

封装材料：TPT(OR PET)、EVA、电池片、钢化玻璃、焊带、接线盒。

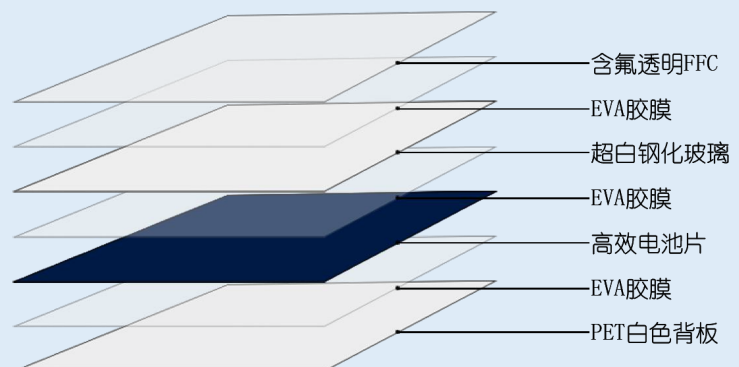
Packaging material: TPT(OR PET), EVA, battery sheet, tempered glass, welding belt, terminal box.



### 产品参数 Product parameters

型号 Modle	Pm(W)	Vm(V)	Im(A)	Vo(V)	Isc(A)	尺寸(mm) Size	重量(kg) Weight	备注 Remark
HIFM-F175-18/1	175	19.2	9.2	23.4	9.7	1310*920*4	8.2	高效单晶电池板
HIFM-F175-18/2	175	19.2	9.2	23.4	9.7	1645*745*4	8.2	
HIFM-F100-22	100	22.3	4.5	27.5	4.8	1260*550*4	4.2	
HIFM-F85-18	85	19.1	4.5	23.3	4.9	1115*550*4	3.8	
HIFM-F25-18	25	18.9	1.33	23.1	1.75	915*225*4	1.5	

剖面结构图  
Profile chart





弯曲板应用于房车，为车载电池供电，保障户外游玩时车载电器有充足的电量使用。边走边充，用电不愁。The curved plate is used in the motor vehicle to provide power for the on-board battery, so that the on-board appliances can be used when playing outdoors. While walking and charging, electricity will not worry.



弯曲板应用于改装车，和应用于房车有同等效果。弯曲板重量轻，安装可贴合车顶弧面，美观实用。The bending plate is applied to the reloading vehicle, which has the same effect as the motor vehicle. The bending plate weighs light, the installation can be fitted with the roof arc, beautiful and practical.



公交站的 LED 灯采用太阳能供电会节省很多维护成本。太阳能供电系统采用弯曲组件供电，造型美观，适用于现代化城市建设。The use of solar power by the LED lights of the bus station will save many maintenance costs. The solar power supply system USES curved components to power supply, beautiful shape, suitable for modern city construction.



低速城用电动车安装太阳能电池板后，太阳能电池板为车载动力电池供电，延长行驶里程，保护电瓶。After the low-speed city USES electric cars to install solar panels, the solar panels provide power to the car's power battery, extend the mileage and protect the battery.