S201W--Solution of increasing standard PV module's power efficiency.
白色EVA-S201W 普通单玻组件提升功率封装解决方案

S201W产品介绍

S201W 是专门为普通单玻组件提升功率而设计开发的，做为组件层压时下层（电池背面）胶膜使用，可提升普通60片电池组件功率1.5--4瓦。

S201W 产品特点

1. 白色胶膜反射率高，明显提升组件效率。
2. 胶膜粗糙表面增加漫发射，提升组件效率。
3. 采用预交联工艺，白色EVA层压无翻层、无溢白、无气泡、无褶皱，无并片及串间距变化。
4. 抗湿热老化及紫外老化能力强。
5. 优异的材料兼容性，与焊带及汇流带、电池片、背板等材料有良好的粘结性。
6. 层压简便.,层压时间短，可使用单腔层压机层压。

S201W Introduction

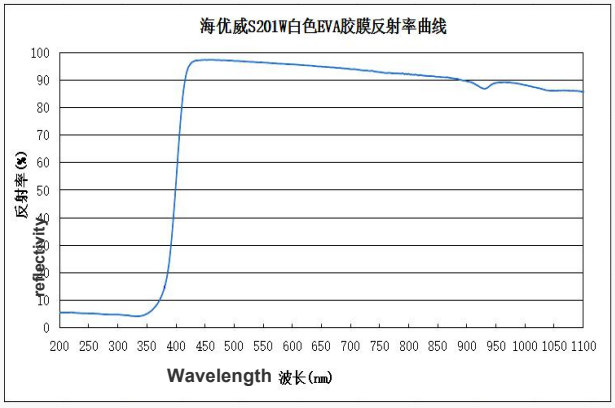
HIUV white EVA-S201W, designing for increasing standard PV module power efficiency as bottom layer EVA.
Can increase 1.5w-4w per standard PV module(60cells).

S201W Characteristics

1.White EVA increase PV module power efficiency markedly.
2. S201W's rough surface increase light diffuse reflection and PV module power efficiency
3. Pre-cross linking white EVA: No white color overflow, no bubble, no wrinkles, no cell string moving
4.Excellent durability，with good performance in DH & UV aging.
5.Outstanding material compatibility. Strong adhesive ability with welding belt， cell，back sheets .
6.Shorten laminating time, can be used in single chamber laminator .

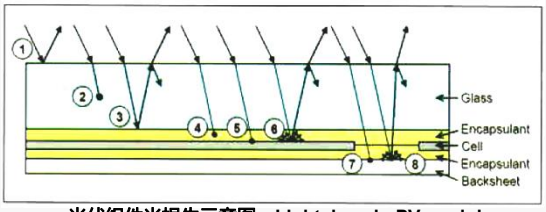
S201W 产品反射率 products light reflectivity

反射率曲线 Light reflectivity curve



提升组件电池下表面材质反射率，可增加组件功率

Wavelength (400--700nm)	平均反射率 Light reflectivity
常规背板 Back sheet	70-85%
白色EVA-S201W White EVA-S201W	> 90%

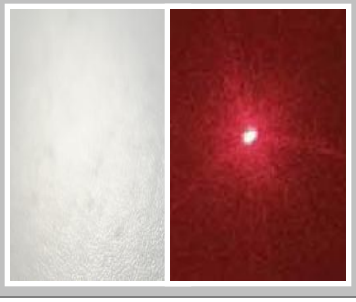


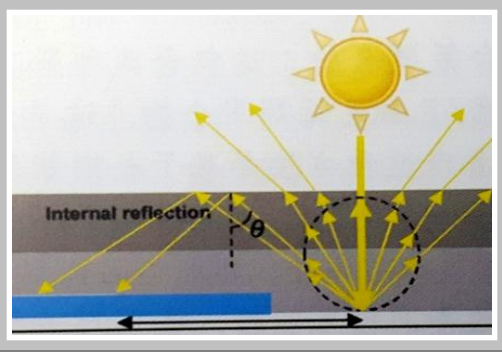
光伏组件光损失示意图：Light loss in PV modules

S201W 拥有粗糙表面，漫反射强度高，有利于组件功率提
S201W's light diffuse reflection ability increase PV module power efficiency

背板表面
Back sheet surface

S201W表面
S201W surface





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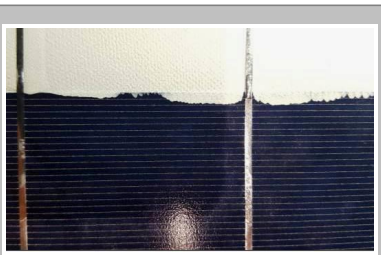
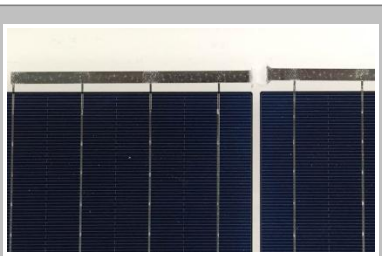
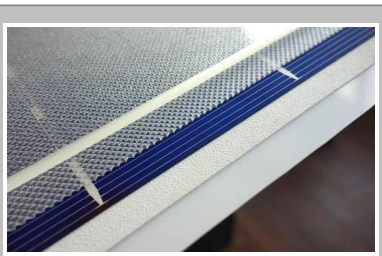
S201W 采用预交联工艺，层压成品率高，无白色翻层，无气泡，无褶皱，无并片
Pre-cross linking white EVA: No white overflow, no bubble, no wrinkles, no cell string moving .

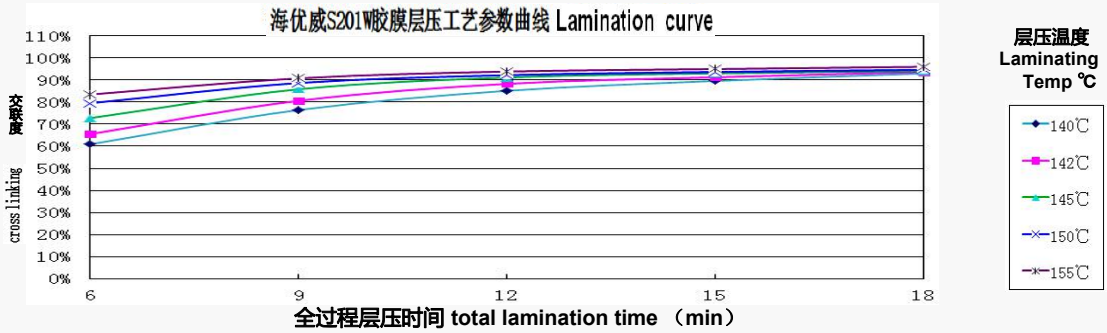

Brand A


HIUV-S201W


Laying

S201W 建议层压工艺参数 (无需延长层压时间) Recommend lamination parameters.

Temp 140-155 C°，vacuuming 4-6 minutes, increasing and keeping pressure 10-14 minutes.



S201W 性能参数 Property

性能 Property	单位Unit	测试方法 Test Method	S201W
宽度Width	mm	HIUV method	970-1000
厚度Thickness	mm		0.50±0.10
反光率 Light reflectivity (400-700nm)	%		> 90
VA含量 VA content	%	TGA	28.5±2
交联度 Gel content (142℃,18min)	Gel%	二甲苯法 Xylen method	> 75
收缩率Shrinkage Rate (120℃, 3min)	%	HIUV method	MD≤4.0
			TD≤1.5
与TPE背板剥离强度 Peeling Strength With TPE	N/cm		> 50
体积电阻率 Volume Insulating Resistance	Ω.cm	GB/T1410-2006	> $1*10^{14}$
耐紫外黄变 UV Light Resistance (120kWh/ m2)	△YI	ASTM G154	< 5.0
耐湿热黄变Heat/Humidity Resistance (80℃, 85%RH,1000hr)	△YI	ASTM E313	< 5.0