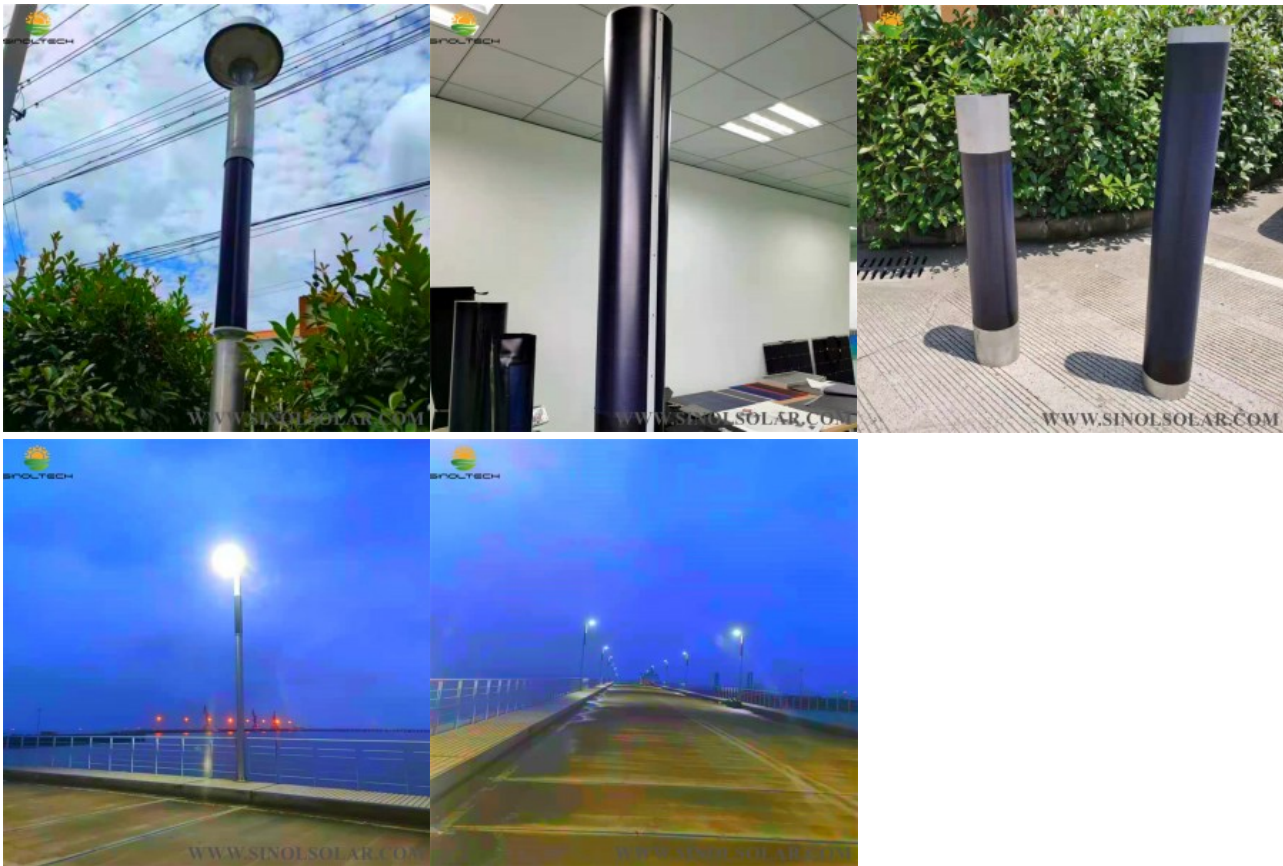

Custom-made Heterojunction Solar PV bonded Streetlight Post



Custom-made Heterojunction Solar PV bonded Streetlight Post

Introduction about Heterojunction Solar Cell The Most Potentntional & Competitive Solar Cell

>Japan Sanyo firstly disclosed a new solar cell structure named HIT (Heterojunction with Intrinsic Thinlayer) in 1990. p-n heterojunction is formed by passivating crystalline silicon cell surface with intrinsic a-Si:H and doped a-Si:H thin film bilayers. The structure avoids direct contact between metal electrode and silicon surface. It is a typical passivated contact solar cell with full area passivated.

> In 2014, Sanyo combined technical advantages of HIT and IBC (Interdigitated back contact) cell features, achieving solar cell efficiency up to 25.6%.

> In 2017, Kanaka improved the efficiency of HBC (Interdigitated heterojunction back contact) cell to 26.7%, which is now the highest efficiency record of crystalline cells.

> Silicon Heterojunction solar cell (short for "HIT" or "SHJ") combines technical advantages of crystalline silicon cells and amorphous silicon cells. SHJ solar cell has low temperature coefficient excellent weak-light response, high bi-facial power gain and no LID. It can also made by supper-thinner silicon wafer. These features enable it the most potential and competitive crystalline solar cell.

HIT Wrapping Solar Panel for Streetlight Pole

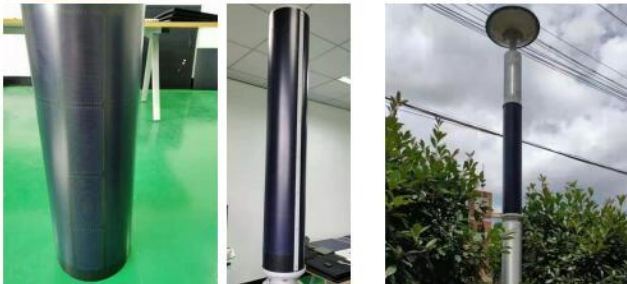
*High-efficiency Hetero-junction Solar Cells (more than 22.8%) are laminated inside to provide excellent weak-light performance and superior Power Temperature Co-efficient, which enable our solar panels to achieve 5% more power-gain.

*Unique Super-wire Connection Technology ensures excellent performance to resist micro crack. Even with extreme conditions, cells still generate power as long as they are not destructively damaged.

*Unique design of 2 circuits in parallel connection ensures 1 circuit is always faced to the sun to achieve stable voltage and high-efficiency power storage.

Standard Parameter of HIT Solar Panel Wrapping Solar Panel Series

SINOLTECH®



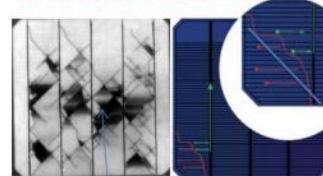
Model	HIT-WRAP-99	HIT-WRAP-176
Cell Type	Heterojunction Solar Cell with Super-wire Connection Technology, Cell efficiency 23.2-24.5%	
Pmax (W)	99	176
Voc (V)	26.6	23.6
Isc (A)	4.68	9.35
Vmp (V)	23.0	20.4
Imp (A)	4.31	8.61
Power Tolerance	0~+5W	
Power Temperature Co-efficient	-0.27 %/°C	
Voc Temperature Co-efficient	-0.26 %/°C	
Isc Temperature Co-efficient	0.04 %/°C	
Working Temperature	-40°C~85°C	
Extended Dimension (mm)	570*1100*1.0 mm	783*1600*1.0 mm
Pole Diameter (mm)	178mm	200-250mm
Weight	0.70 KG	3.80KG
Output Port	MC4 connector or upon request	

HIT Wrapping Solar Panel for Streetlight Pole

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Conventional PV Ribbon Connection



(Black failure area, no power output)

Super-wire Connection Technology



(Almost No failure area)

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Product

link : <http://www.sinolsolar.com/60w-80w-100w-120w-led-vertical-solar-street-light.html>