



Key Features

Version:2018(A)

- ★ High cell's efficiency with high quality silicon material for long term output stability and reliability
- ★ Rigorous quality control to meet highest international standards
- ★ High transmittance, low iron tempered glass cover with enhanced stiffness and impact resistance
- ★ Outstanding electrical performance under high temperature and low irradiance ,cloudy weather conditions
- ★ Unique frame design with high mechanical strength for easy installation
- ★ Advanced encapsulation material provide efficient protection from the severest environment conditions

Applications

- ★ Solar lights, Solar home system and Other solar device

MECHANICAL PARAMETERS

Solar cell	Polycrystalline solar cell
Front Cover	3.2mm tempered glass
Back Cover	TPT (Tedlar-PRT-Tedlar)
Encapsulate	EVA(ethylene vinyl acetate)
Frame	Double-layer anodized aluminum alloy
Junction Box	IP65
Cables / Connectors	MC4 connectors ,4mm ² x900mm Cable
Dimensions(mm)	1440x670x35
Weight(kg)	11.5

Maximum System Voltage	1000V DC
Operating Temperature	-40℃~85℃
Storage Temperature	-40℃~85℃
Maximum Wind Load	2400Pa
Maximum Snow Load	5400Pa
Application Class	Class A

ELECTRICAL PARAMETERS

Series Number	GSPV-140W (156P)36	GSPV-145W (156P)36	GSPV-150W (156P)36
Cell Type	Poly	Poly	Poly
Max power	140w	145w	150w
Power Tolerance	0~5w		
Nominal Voltage(V)	18.05	18.11	18.13
Nominal Current(A)	7.76	8.01	8.27
Open circuit voltage(V)	22.05	22.13	22.15
Short circuit current(A)	8.46	8.68	8.85
Size of cell/strip(mm)	156x140	156x145	156x150
Number of cell/strip	36(4x9)		
Power Of cell	>4.50w	>4.5w	>4.5w
FF(fill factor)%	74.79	75.97	76.06
NOCT	45℃±2℃		
Temperature Co-efficient	Isc	+0.049% /℃	
	Voc	-0.340% /℃	
	Pmpp	-0.430% /℃	
STC :Irradiance 1000w/m ² , Module temperature 25℃ ,AM=1.5			

WARRANTY

10years on material on workmanship
10years with 90% output, 20years with 80% output

Structure Diagram

Assemble Process

