For a Free Quote:

Web: EnergyPal.com/solar

Call: 1-800-990-3725

Email: contact@energypal.com



Solar Panel Guide Specification Data Sheet

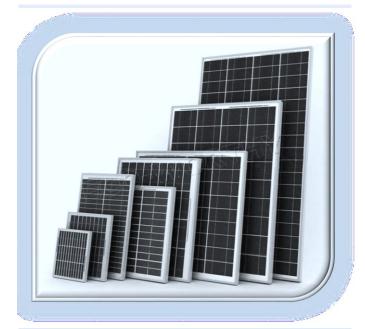
PV Silicon Technologies (Pvt) Ltd.

Battery Charging Application 60-100W

PVST/SP/80W

## **PV Silicon Technologies**

# BATTERY CHARGING APPLICATION SERIES



# HIGH

**CELL EFFICIENCY** 

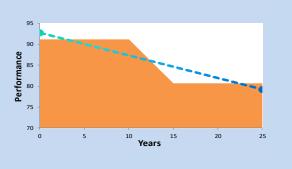
# WARRANTIED

**PRODUCT** 

0 - 5 W

**POWER TOLERANCE** 

## **25 Years Performance Warranty**





# HIGHEST QUALITY MODULE NEVER HERE BEFORE

Independently tested for proven product quality and long-term reliability.



#### **Durability**

Durable PV modules, independently tested for harsh environmental conditions such as exposure to saltmist, ammonia and known PID risk factors.



#### **Advanced Glass**

Our high-transmission glass features a unique antireflective coating that directs more light on the solar cells, resulting in a higher energy yield.



#### **Corner Locking**

The corner locking technique through aluminium corners furnishes our modules with more strength to bear the air pressure. It also strengthens glass for encountering the hails of size up to 25mm.



#### **PID Resistant**

Our PV modules have demonstrated resistance against PID (Potential Induced Degradation), which translates to security for your investment.

# pvsilicontech.com info@pvsilicontech.com

#### Factory:

### **BATTERY CHARGING APPLICATIONS 60W TO 100W SERIES**

#### **ELECTRICAL PERFORMANCE**

Electrical parameters at Standard Test Conditions (STC)							
Module type		PVST/SP/60W	PVST/SP/70W	PVST/SP/80W	PVST/SP/90W	PVST/SP/95W	PVST/SP/100W
Power output	Pmax	60 W	70 W	80 W	90 W	95 W	100 W
Power output Toleranaces	%Pmax	3%					
Module efficiency	ηm	15.2%	17.7%	16.8%	15.6%	17.2%	17.7%
Open-circuit Voltage	Voc	21.6 V					
Voltage at Pmax	Vmp	17.4 V					
Short-circuit Current	Isc	3.84 A	4.48 A	5.12 A	5.76 A	6.08 A	6.40 A
Current at Pmax	Imp	3.46 A	4.03 A	4.61 A	5.18 A	5.47 A	5.75 A
Maximum System Voltage	Vmax	1000 V	1000.0 V	1000.0 V	1000.0 V	1000.0 V	1000.0 V

STC: 1000W/m2 irradiance, 25°C module temperature, AM1.5g spectrum according to EN 60904-3. Average relative efficiency reduction of 3.3% at 200W/m2 for Poly Crystalline and 1.9% for PANDA according to EN 60904-1.

#### THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	46 +/- 2
Temperature coefficient of Pmax	Υ	%/°C	-0.42
Temperature coefficient of Voc	βVoc	%/°C	-0.32
Temperature coefficient of Isc	αlsc	%/°C	0.05
Temperature coefficient of Vmpp	βVmpp	%/°C	-0.42

#### **OPERATING CONDITIONS**

Max. system voltage	1000VDC		
Max. series fuse rating	15A		
Limiting reverse current	15A		
Operating temperature range	-40°C to 85°C		
Max. load, front (e.g., snow)	5400Pa		
Max. load, back (e.g., wind)	2400Pa		
Max. hailstone impact	25mm / 23m/s		

#### **CONSTRUCTION MATERIALS**

Front cover (material / thickness)	low-iron tempered glass / 4.0mm		
Cell (material)	Multi/Mono crystalline silicon		
Cell (Cell Type /number of busbars)	Cutted Cells/ 2 or 3		
Frame (material / color)	anodized aluminum alloy / silver		
Frame (anodization color /edge sealing)	clear / silicone or tape		
Junction box (protection degree)	≥ IP65		
Plug connector (type / protection degree)	MC4 / IP67		

Due to continuous innovation, research and product improvement, the specifications in this product information sheet are subject to change without prior notice. The specifications may deviate slightly and are not guaranteed.