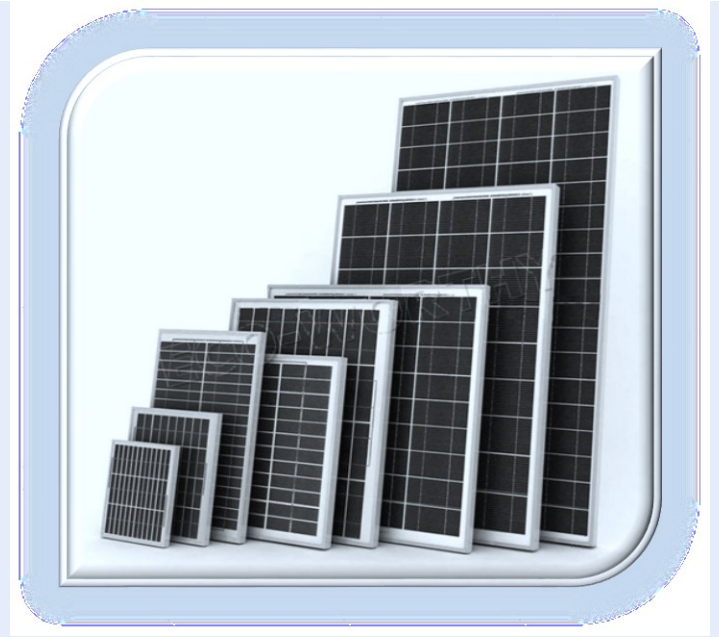
For a Free Quote:
Web: **EnergyPal.com/solar**
Call: **1-800-990-3725**
Email: **contact@energypal.com**

Solar Panel Guide
Specification Data Sheet

PV Silicon Technologies (Pvt) Ltd.
Small Panel 5-50W
PVST/SP/5W

PV Silicon Technologies

SMALL PANEL
SERIES

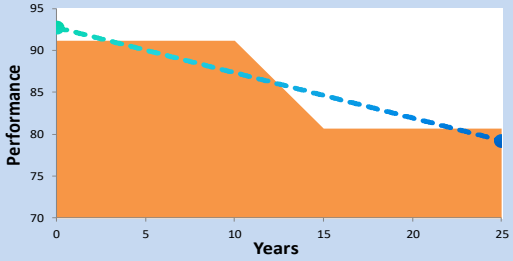


HIGH
CELL EFFICIENCY

WARRANTIED
PRODUCT

0 - 5 W
POWER TOLERANCE

25 Years Performance Warranty



PV SILICON TECHNOLOGIES

HIGHEST QUALITY MODULE
NEVER HERE BEFORE

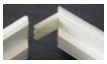
Independently tested for proven product quality and long-term reliability.

Durability

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

Advanced Glass

Our high-transmission glass features a unique anti-reflective 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:		Head Office
8KM Raiwind Road, Bhubtian, Lahore. Ph. No: 042-36162312 .		Plot # 73-C, Al Ghani Street, Islamabad Farming Society D-17, Islamabad Ph. no: 051-2361314-15, Fax: 051-2361316

SMALL PANELS 05W TO 50W SERIES

ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)

Module type		PVST/SP/5W	PVST/SP/10W	PVST/SP/20W	PVST/SP/30W	PVST/SP/50W
Power output	Pmax	5W	10W	20W	30W	50W
Power output Toleranaces	%Pmax	3%				
Open-circuit Voltage	Voc	19.2 V	19.2 V	21.6 V	21.6 V	21.6 V
Voltage at Pmax	Vmp	15.5 V	15.5 V	17.4 V	17.4 V	17.4 V
Short-circuit Current	Isc	0.36 A	0.72 A	1.28 A	1.92 A	2.66 A
Current at Pmax	Imp	0.32 A	0.65 A	1.15 A	1.73 A	2.30 A
Maximum System Voltage	Vmax	1000 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	γ	%/°C	-0.42
Temperature coefficient of Voc	βVoc	%/°C	-0.32
Temperature coefficient of Isc	αIsc	%/°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.