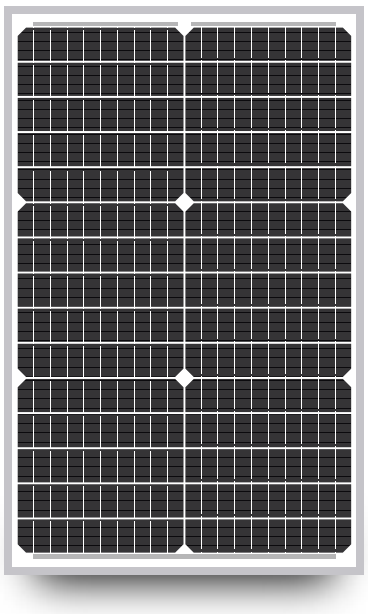
SLD TECH™
Renewable Technology And Solutions

SOLAR PANEL

ST-30P-12

High Efficiency Monocrystalline PV Module

- Nominal 12V DC for standard output.
- Outstanding low-light performance.
- Heavy-duty anodized frames.
- High transparent low-iron, tempered glass.
- Designed to withstand high wind pressures, hail and heavy snow.
- Quality aesthetic appearance.



30 CELL
MONOCRYSTALLINE MODULE

30W
POWER OUTPUT

20.00%
MODULE EFFICIENCY

5%
POSITIVE TOLERANCE

High Efficiency

Module Efficiency improved through advanced cell technology and manufacturing capabilities

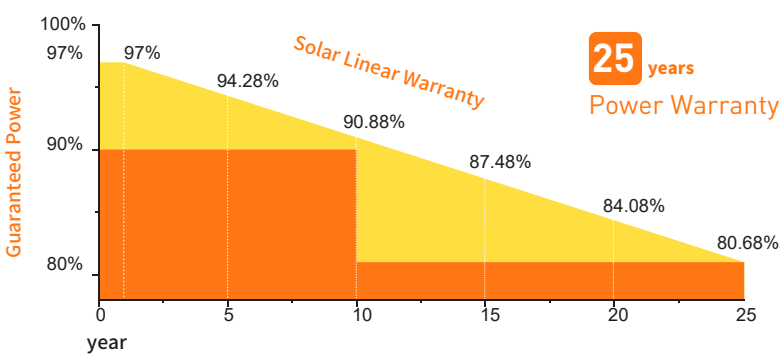
High PID Resistance

Advanced cell technology and qualified materials lead to high resistance to PID

Withstands Harsh Environment

High PID resistance, 5400 Pa positive load, 2400 Pa negative load, Salt mist (IEC 61701)

Performance Warranty



2 years
Product Warranty

25 years
Power Warranty

Wind Load/Snow Load:
2400pa/5400pa

Positive Power Tolerance:
0~+5W

Warranty Information:
2 Year Product Workmanship

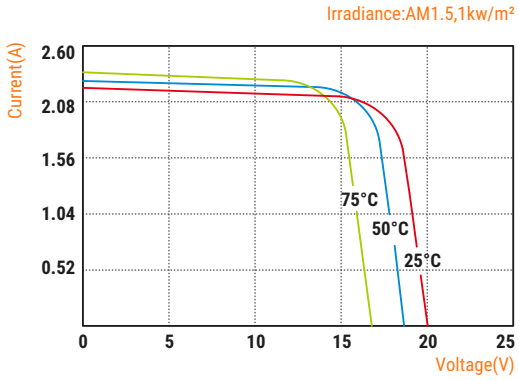
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ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

SOLAR PANEL

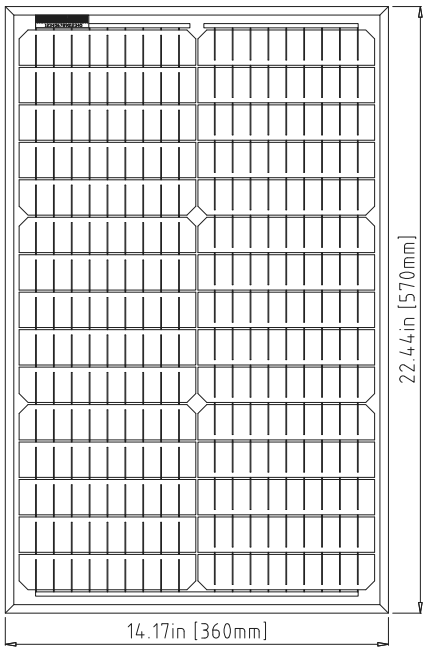
Electrical Characteristics	
Product code	030P3001A
Maximum power (Pmax)	30W
Voltage at Pmax (Vmp)	17.37V
Current at Pmax (Imp)	1.73A
Open-circuit voltage (Voc)	20.04V
Short-circuit current (Isc)	1.82A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V DC
Power tolerance	± 5%

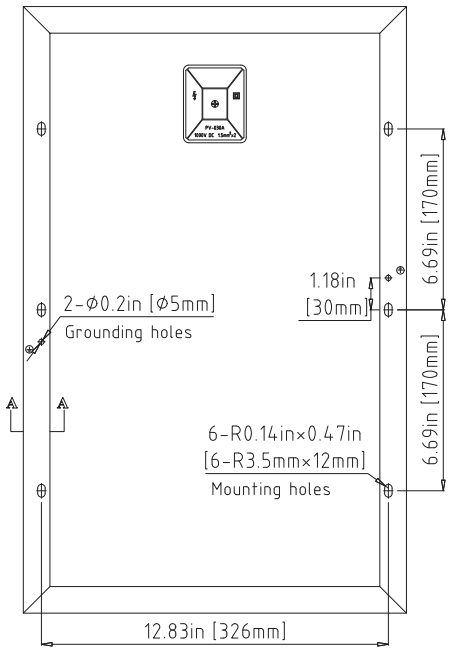
*STC: Irradiance 1000W/m², AM1.5 spectrum, module temperature 25°C
*NOCT:Nominal operating cell temperature (the data is only for reference)

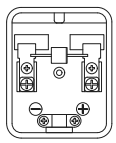


I-V Curves (STC)

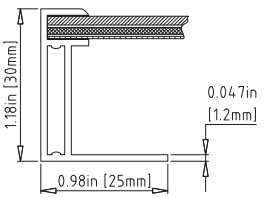
Specifications	
Cells	Monocrystalline silicon solar cell
No. of cells and connections	30(2X15)
Module dimension	22.44in.x14.17in.x1.18in.[570mmx360mmx30mm]
Weight	5.61lbs[2.54kg]
Packing information(Carton)	24.21in.x15.94in.x2.56in.[615mmx405mmx65mm]/(1pc/ctn)







Junction Box
Top View (Lid Open)



Section A-A

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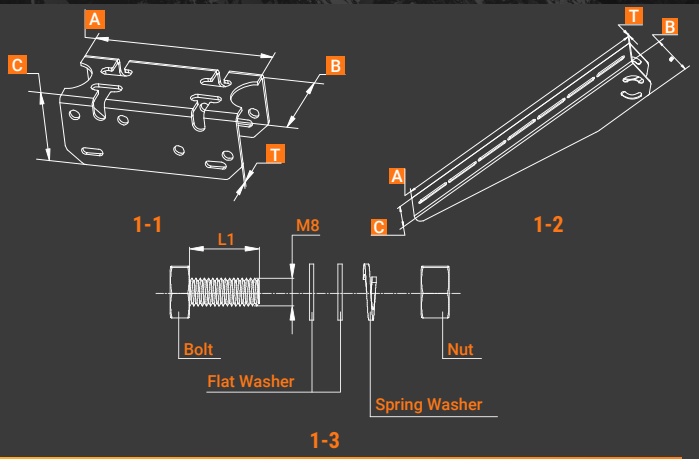
STB-0112

Single Arm Side of Pole/Wall Mount Bracket (For use with SLD TECH® 5W-65W Panels)

The SLD TECH® STB-0112 has been specifically designed to use with the SLD TECH® ST Series panels ranging in size from 5W-65W. This single arm fixed bracket provides a safe and secure mount to a pole, wall, fence or any flat surface.



Item	STB-0112
Mounting Type	Single Arm Side of Pole/Wall Mount
Module Type	SLD TECH® 5W-65W
Number of Modules	Mounts 1 Panel
Setting Angle	0° to 90°
Wind Load	Designed to withstand wind speeds of 90mph
Snow Loading	1.1kN/m²
Warranty	5 Years

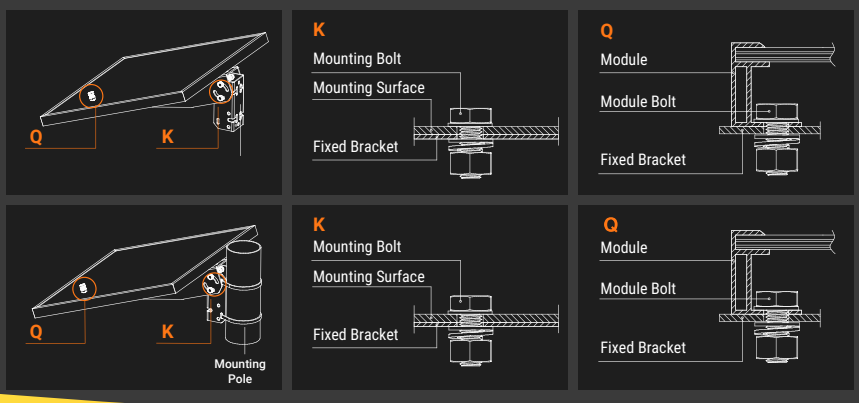


Components and Parts

Diagram	Component	Material	Surface Treatment	Quantity	Dimensions
1-1	Fixed Bracket	5052Al	N/A	1	A=160mm[6.30in.], B=69mm[2.72in.], C=66mm[2.60in.], T=3.0mm[0.12in.]
1-2	Tilt Arm	5052Al	N/A	1	A=550mm[21.65in.], B=82mm[3.23in.], C=76mm[2.99in.], T=3.0mm[0.12in.]
1-3-1	Module Bolt	AISI304	N/A	2	M8X20mm[0.79in.]
1-3-2	Mounting Bolt	AISI304	N/A	4	M8X20mm[0.79in.]

*Note: U-Bolt is NOT provided with the kit.

Mounting Diagram



Note:

- When using this kit with another brand of panel, you may need to change the module bolts to suit the mounting holes on the panel.

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