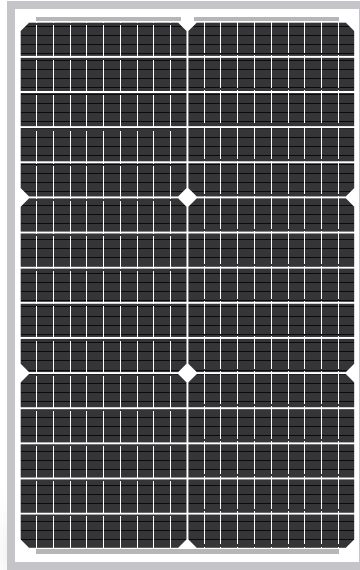




ST-30P-12

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

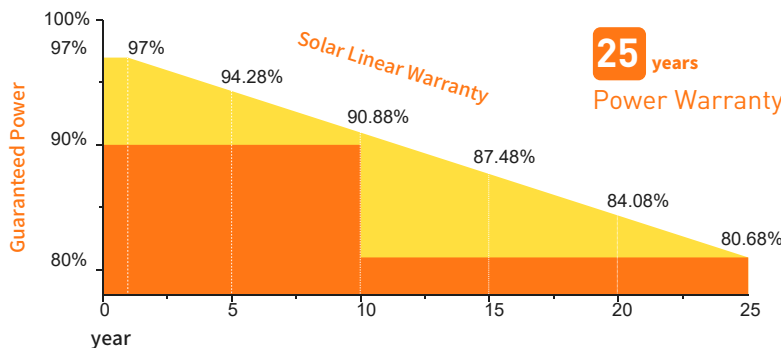
Advanced cell technology and qualified materials lead to high resistance to PID



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

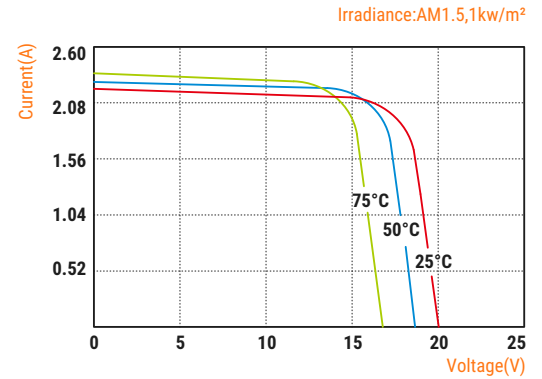
Positive Power Tolerance:
0~+5W

Warranty Information:
2 Year Product Workmanship

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% |

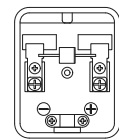
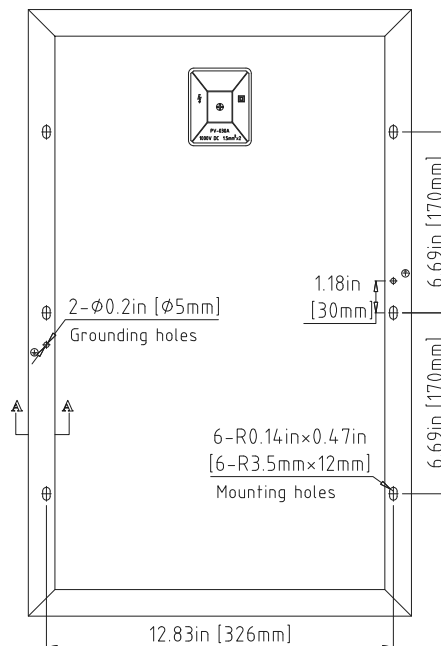
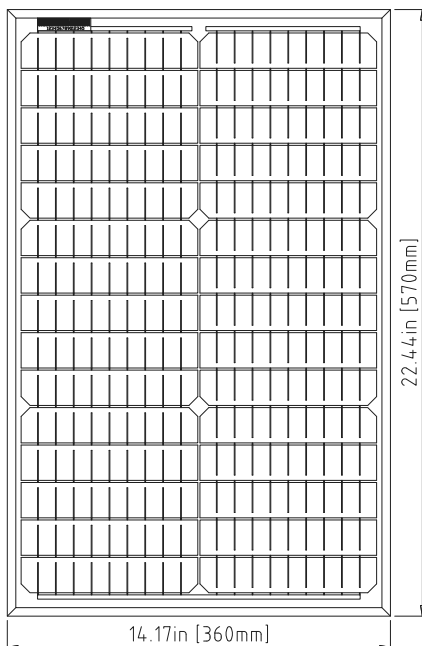
*STC: Irradiance 1000W/m², AM1.5 spectrum, module temperature 25°C
 *NOCT: Nominal operating cell temperature (the data is only for reference)



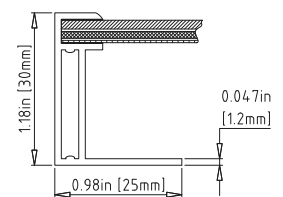
I-V Curves (STC)

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

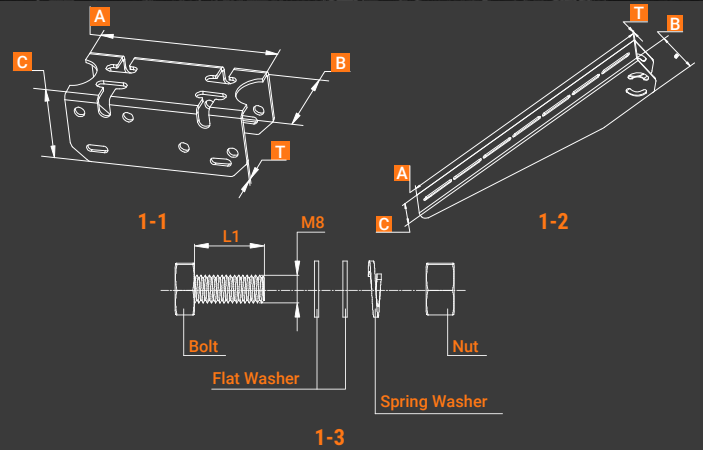
STB-0112

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 | 1.1 kN/m ² |
| Warranty | 5 Years |

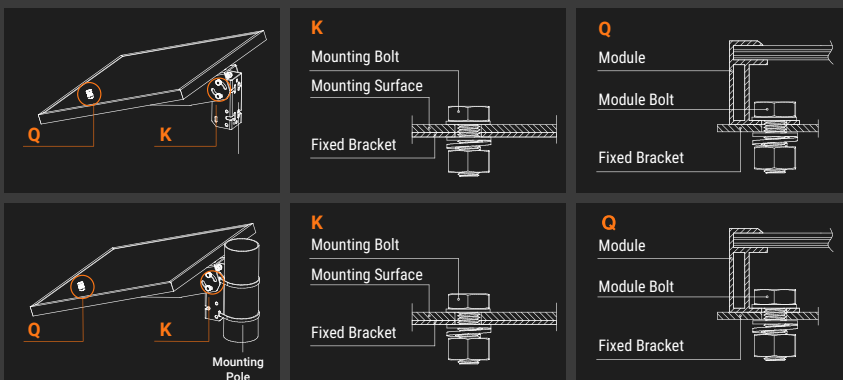


Components and Parts

| 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.