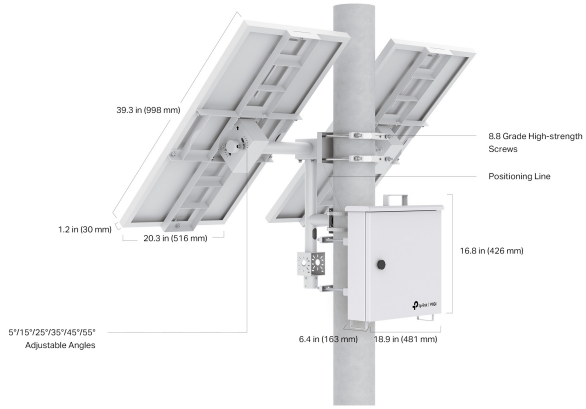
**Datasheet**
Security Never Shuts Down

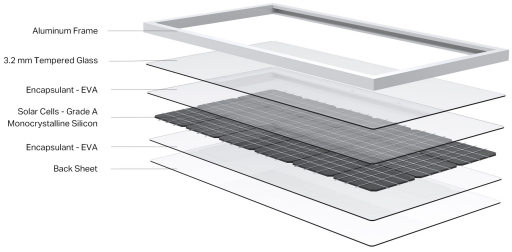
# Intelligent Solar Power Supply System*

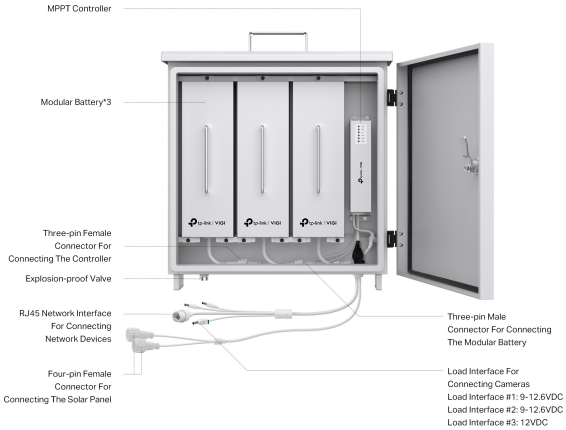
MODEL: VIGI SP18090

*Intelligent Solar Power Supply System consists of three parts:
**VIGI Solar Panel, VIGI System Controller, 180W Solar Mount.**

# Build Features




*Installation tools such as screwdrivers and rolling tape will not be provided.

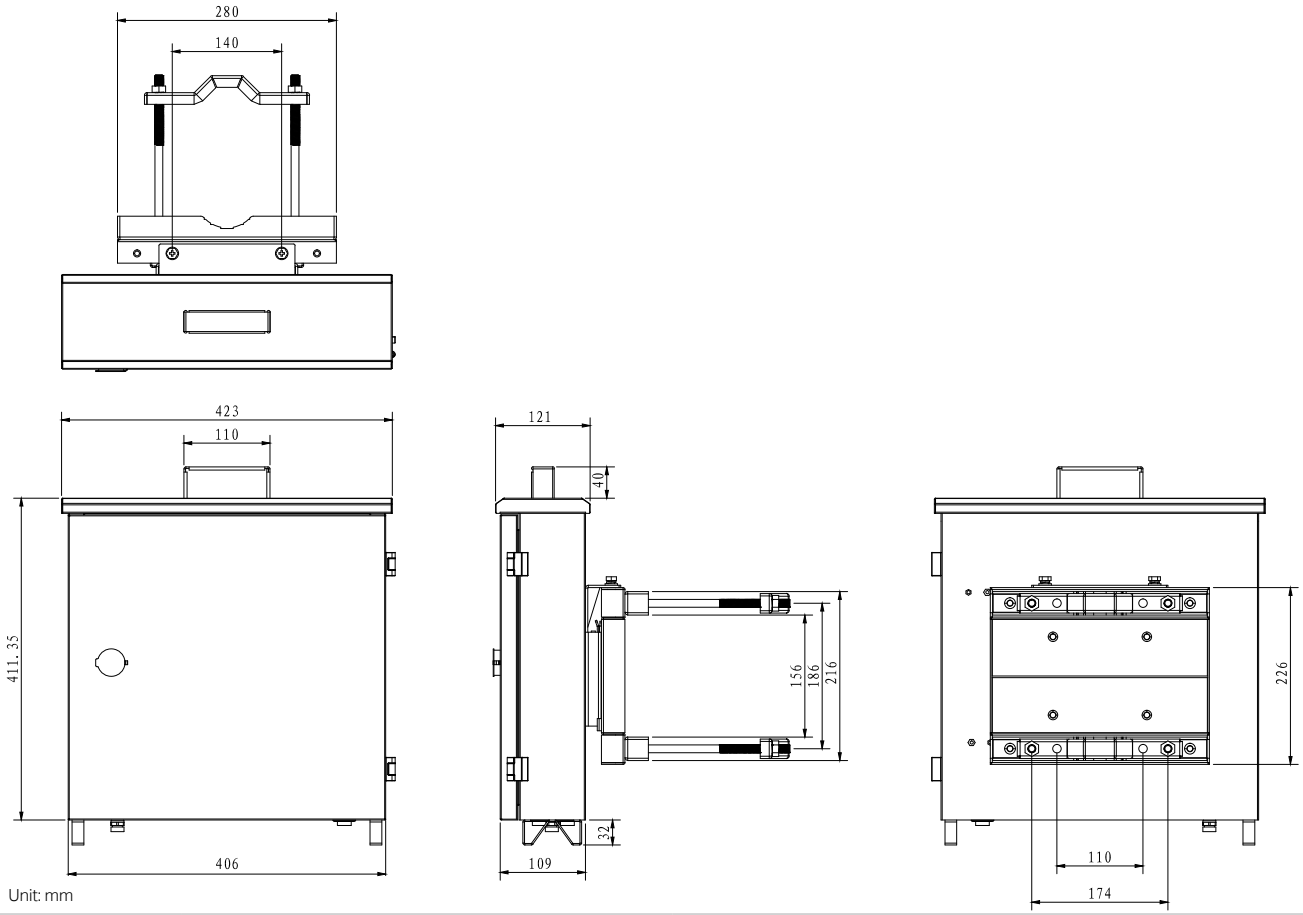
# Specifications

| Solar Panel (Photovoltaic Panel) | | |
|---|---|---|
| Hardware | Power | 180 W (90 W per panel) |
| | Voltage | 18 V |
| | Dimensions (L x W x H) | 39.3×20.3×1.2 in (998×516×30 mm) |
| | Weight | • Product Weight: 5.6 kg<br>• Package Weight: 8.9 kg |
| Others | Certification | CE, IP67 Weatherproof |
| | Package Contents | VIGI Solar Panel, Quick Start Guide |
| | Environment | • Operating Temperature: -30°C-60°C (With intelligent auxiliary heating)<br>• Operating Humidity: 10%~90%RH, Non-condensing |
| **VIGI Solar System Controller** | | |
| Battery | Type | Lithium |
| | Intelligent Auxiliary Heat | Yes |
| | Battery Capacity | 93.6Ah (Max),31.2Ah (Per Lithium Battery) |
| | Voltage | 10.95 V |
| | Max. Output Voltage | 12.6 V |
| | Life | More than 500 cycles† |
| | Dimension | • 9.4×2.9×2.8 in (240×74×72 mm) (Per Lithium Battery) |
| | Charging Condition | • 0°C to 45°C (32 °F to 113 °F)<br>• -30°C to 45°C (-22 °F to 113 °F) (With intelligent auxiliary heating) |
| | Discharging Condition | • -20°C to 60°C (-4 °F to 140 °F)<br>• -30°C to 60°C (-22 °F to 140 °F) (With intelligent auxiliary heating) |

| | | |
|---|---|---|
| Hardware | Interface | • 1× Three-pin Female Connector For Connecting The Controller<br>• 1× Three-pin Male Connector For Connecting The Modular Battery<br>• 2× Four-pin Female Connectors For Connecting The Solar Panel<br>• 1× 10/100 Mbps RJ45<br>• 3× 5.5mm DC Power Plugs (#1, #2: 9V-12.6 VDC/2A, #3: 12 VDC/2A) |
| | Indicator LED | • Quantity: 6 (1× SYS Indicator, 1× LAN Indicator, 1× PV Indicator, 3× BAT Indicator)<br>• Color: Blue |
| Software | Load Control | Yes |
| | High and Low Temperature Protection | Yes |
| | Overdischarge Protection | Yes |
| | Power Consumption Statistics | Yes |
| | Displays Real-time Load Status | Yes |
| | Battery Level Display | Yes |
| | Time Zone Selection | Yes |
| | Schedule Saving | Yes |
| | Firmware Remote Update | Yes |
| | Remote Reboot | Yes |
| | Local LAN Management | Yes |
| | Smart Charging Control | -30 °C to 5 °C (-22 °F to 41 °F) |
| | Account Management | Yes |
| | Remote Reset | Yes |
| | Remote Message Push | Yes |

| | | |
|---|---|---|
| Others | Box Dimensions (W X D X H) | 18.9×16.8×6.4 in (481*426*163 mm) |
| | Weight | • Product Weight: 16.5 kg<br>• Package Weight: 24 kg |
| | Compatible Pole Diameter | Ø3.1-6.3 in (Ø80-160 mm) |
| | Package Contents | • VIGI PS90<br>• Installation Guide<br>• Waterproof Cable Attachments<br>• Mounting Accessories<br>• Extension Cable<br>• Box Key |
| | Environment | • Operating Temperature: -30°C-60°C (-22 °F to140 °F) (With intelligent auxiliary heating)<br>• Operating Humidity: 10%~90%RH, Non-condensing |
| | Certification | • CB, PSE (Battery)<br>• CE, FCC, VCCI, IC, IP66 |

## Dimensions




Unit: mm

| VIGI 180W Solar Mount | | |
|---|---|---|
| Hardware | Product Dimensions (W × D × H) | 35.4 × 22.8 × 8.2 in (900 × 580 × 208 mm) |
| | Weight | • Product Weight: 20 kg<br>• Package Weight: 24 kg |
| | Angle Adjustment (Manual) | Range: 5°/15°/25°/35°/45°/55° |
| Others | Package Contents | • VIGI 180W Solar Mount<br>• Quick Start Guide<br>• Mounting Accessories |
| | Environment | • Operating Temperature: -30°C to 60°C<br>• Operating Humidity: 5%~90%RH, Non-condensing |
| | Compatible Pole Diameter | Ø3.1-6.3 in (Ø80-160 mm) |

Specifications are subject to change without notice and can be found at www.vigi.com.

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