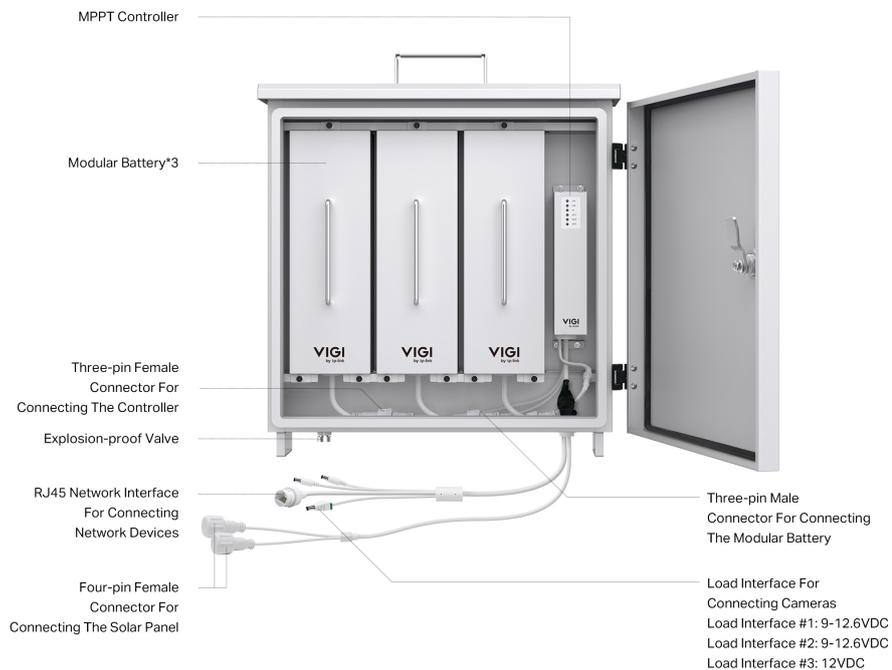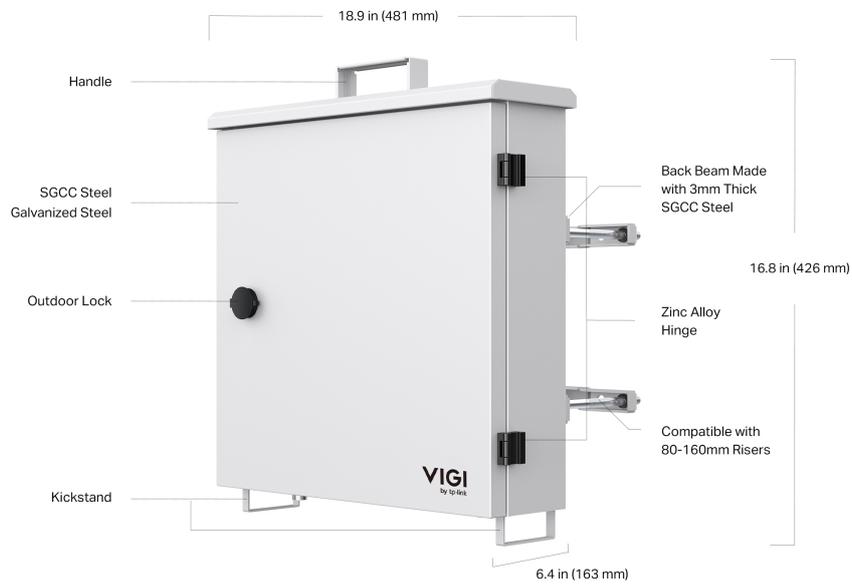# VIGI
by tp-link

Solar System Controller

MODEL: VIGI PS90

// Highlights

- 1024.92Wh Replaceable Automotive-Grade Lithium Battery
- Remote Management and Maintenance via the VIG app, VIGI Cloud VMS or VIGI VMS
- Independent Protection Circuit Ensures Battery Safety and Uninterrupted Device Operation
- Intelligent Auxiliary Heating Technology Ensures Optimal Battery Performance in Extreme Cold Weather
- Maximum Power Point Tracking (MPPT) Charging Controller Increases Charging Efficiency by 20%[*]
- Remaining Capacity > 70%[**] after 500 Cycles[†]
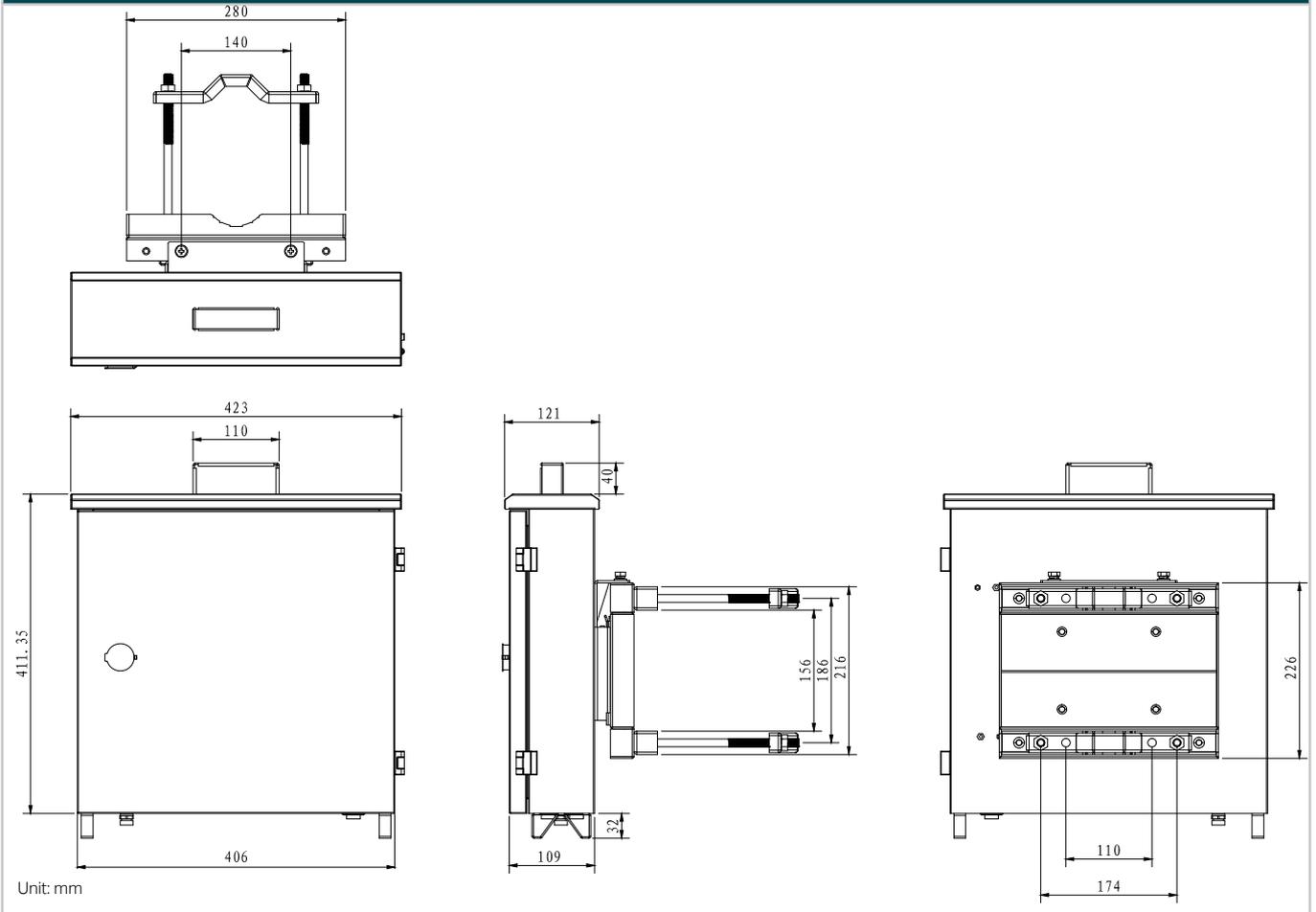- IP66 Weatherproof

// Build Features

18.9 in (481 mm)

Handle

SGCC Steel
Galvanized Steel

Outdoor Lock

Kickstand

Back Beam Made
with 3mm Thick
SGCC Steel

16.8 in (426 mm)

Zinc Alloy
Hinge

Compatible with
80-160mm Risers

6.4 in (163 mm)

MPPT Controller

Modular Battery*3

Three-pin Female
Connector For
Connecting The Controller

Explosion-proof Valve

RJ45 Network Interface
For Connecting
Network Devices

Four-pin Female
Connector For
Connecting The Solar Panel

Three-pin Male
Connector For Connecting
The Modular Battery

Load Interface For
Connecting Cameras
Load Interface #1: 9-12.6VDC
Load Interface #2: 9-12.6VDC
Load Interface #3: 12VDC

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

//Specifications

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) • -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) • -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 • 1× Three-pin Male Connector For Connecting The Modular Battery • 2× Four-pin Female Connectors For Connecting The Solar Panel • 1× 10/100 Mbps RJ45 • 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) • Color: Blue

Software Features	
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	
Certification	• CB, PSE (Battery) • CE, FCC, VCCI, IC, IP66
Compatible Pole Diameter	Ø3.1-6.3 in (Ø80-160 mm)
Package Contents	• VIGI PS90 • Installation Guide • Waterproof Cable Attachments • Mounting Accessories • Extension Cable • Box Key
Box Dimensions (W X D X H)	18.9 × 16.8 × 6.4 in (481 × 426 × 163 mm)
Weight	• Product Weight: 16.5 kg • Package Weight: 24 kg
Environment	• Operating Temperature: -30 °C to 60 °C (-22 °F to 140 °F) (With intelligent auxiliary heating) • Operating Humidity: 10%~90%RH, Non-condensing

Dimensions

Unit: mm

*This value is compared to the PWM (Pulse Width Modulation) controller. Actual performance will vary as a result of client limitations and environmental factors.

**Calculations based on laboratory testing. Actual performance will vary as a result of client limitations and environmental factors.

†A cycle represents one full charge and discharge. Based on 30Ah capacity and an average camera consumption of 2.44W, 500 cycles approximate a 10-year lifespan.

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

©2025 TP-Link