SQYPower - 48-200

Manual:

SPC43682-Power-Bank-V4

Valid for Version AGM_v4

Version:	*Date:*	*Revision:*	*Initials:*	*Correction:*
AGM_v4	23-02-2026	4.0	JHJ & KM	General update of the manual

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1 Index

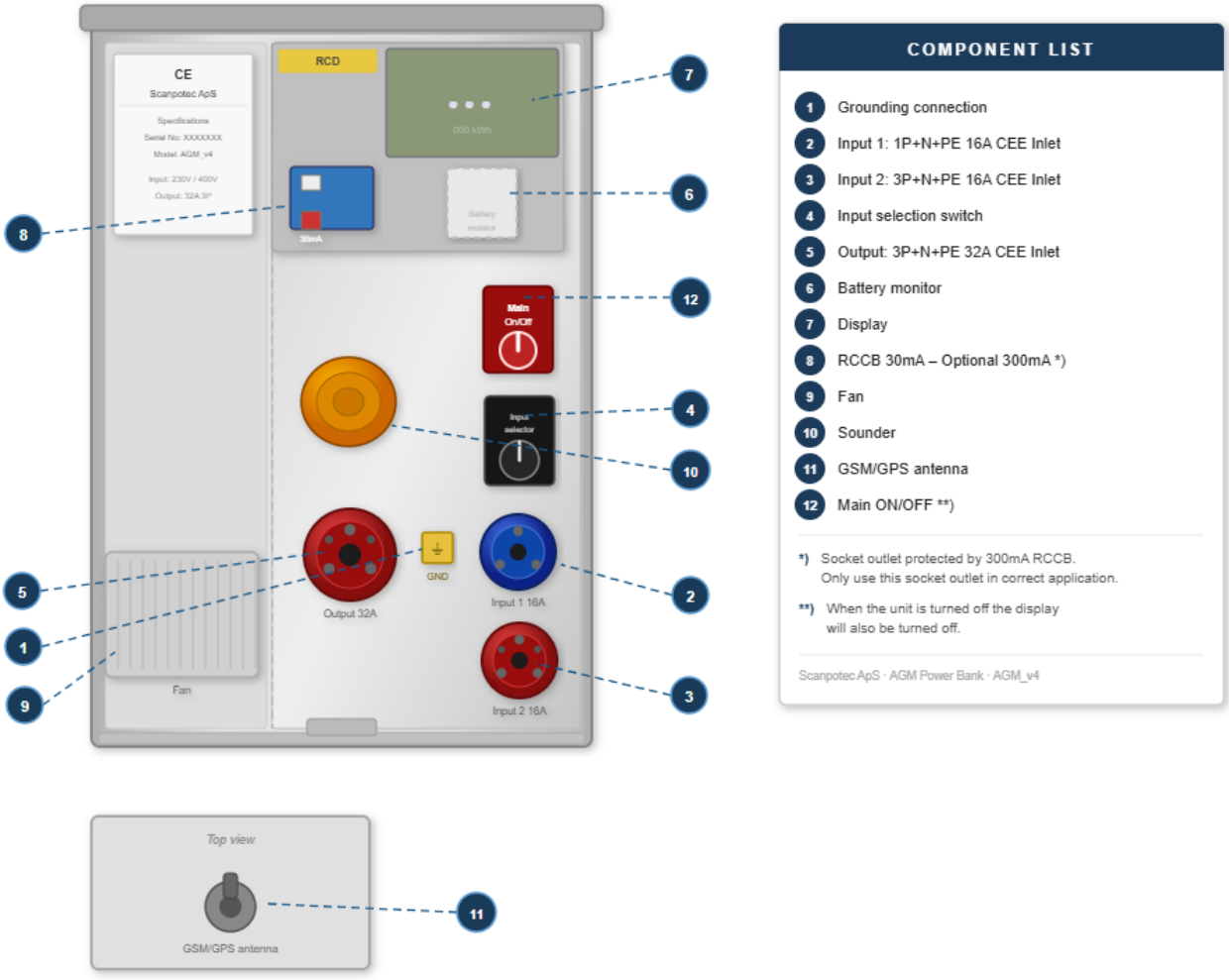
2 Safety instructions

Read this manual thoroughly before commissioning to ensure full understanding of the product's functionality.

The unit is intended exclusively for off-grid[1] or power-assist[2] applications. Use outside the specified application is not permitted. A risk assessment shall be performed prior to operation.

Warning: The unit operates with a permanent energy source (batteries). Output may be energized even when mains supply is disconnected.

3 Description



COMPONENT LIST

1. Grounding connection
2. Input 1: 1P+N+PE 16A CEE Inlet
3. Input 2: 3P+N+PE 16A CEE Inlet
4. Input selection switch
5. Output: 3P+N+PE 32A CEE Inlet
6. Battery monitor
7. Display
8. RCCB 30mA – Optional 300mA *)
9. Fan
10. Sounder
11. GSM/GPS antenna
12. Main ON/OFF **)

*) Socket outlet protected by 300mA RCCB. Only use this socket outlet in correct application.

**) When the unit is turned off the display will also be turned off.

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[1] Ref. App. 2
[2] Ref. App. 3

4 Operation

The unit is designed for off-grid[3] suppling 3x400VAC to SQYFlex. The unit will power the load from batteries that are continues charged when connected to the grid.

4.1 Switching on/off

4.1.1 ON

Step 1:

Connect 230VAC to Input 1 or 3x400VAC to Input 2. 5.2

Step 2:

Turn the Input selector (4) to the selected power. 1 for 1-Phase or 2 for 3-Phase.

Step 3:

Turn the main on/off switch (12) to ON. Wait about a minute until the screen lights up.

4.1.2 OFF

Step 1:

Turn the main on/off switch (12) to OFF.

Step 2:

Turn the Input selector (4) to 0.

Step 3:

Disconnect all cables

4.2 Charging

Charging is active when a valid input is selected (4) and the system is ON (12).

Mains input current is limited to 16 A as standard and can be reduced to a minimum of 6A. Lower limits reduce performance.

State of Charge (SoC) is displayed on the screen and indicates how much energy is stored in the battery. For the SoC reading to be accurate, the battery must be fully charged during each charging cycle. If this is not possible, the SoC becomes less accurate, and it is recommended to use ampere-hours (Ah) as a reference instead.

At amphours of 0Ah the battery is fully charged.

At amphours of -100Ah the battery must be recharged

Read out of amphours is taken from the BMV battery monitor.

4.3 BMV Battery monitor

Details of the battery system can be seen on the battery monitor.

[3] Ref. App. 2

5 Installation

The unit can be installed on a trailer or on another levelled surface. The floor must support the weight of the unit and guarantee its stability.

5.1 Ground connection

The PE of the unit must be connected according to applicable law.

The ground connection must be connected to an earthed installation, and conductive parts must be potential equalized according to applicable law.

The output of the unit is protected against electric shock by an RCCB.

When supply is not available the unit acts as off-grid power bank, and the “N” and “PE” is internally connected.

5.2 Connection of AC cabling

The unit is equipped with the option of two different input supply connections.

Input 1: 1P+N+PE 16A CEE Inlet

Input 2: 3P+N+PE 16A CEE Inlet

Recommended supply cable for Supply 1: 3x2,5mm^2 at max 20 meters.

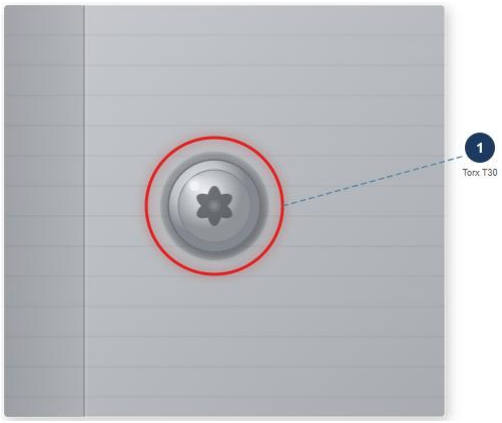
Connect load to the outlet (3P+N+PE 32A CEE) of the unit.

6 Connectivity

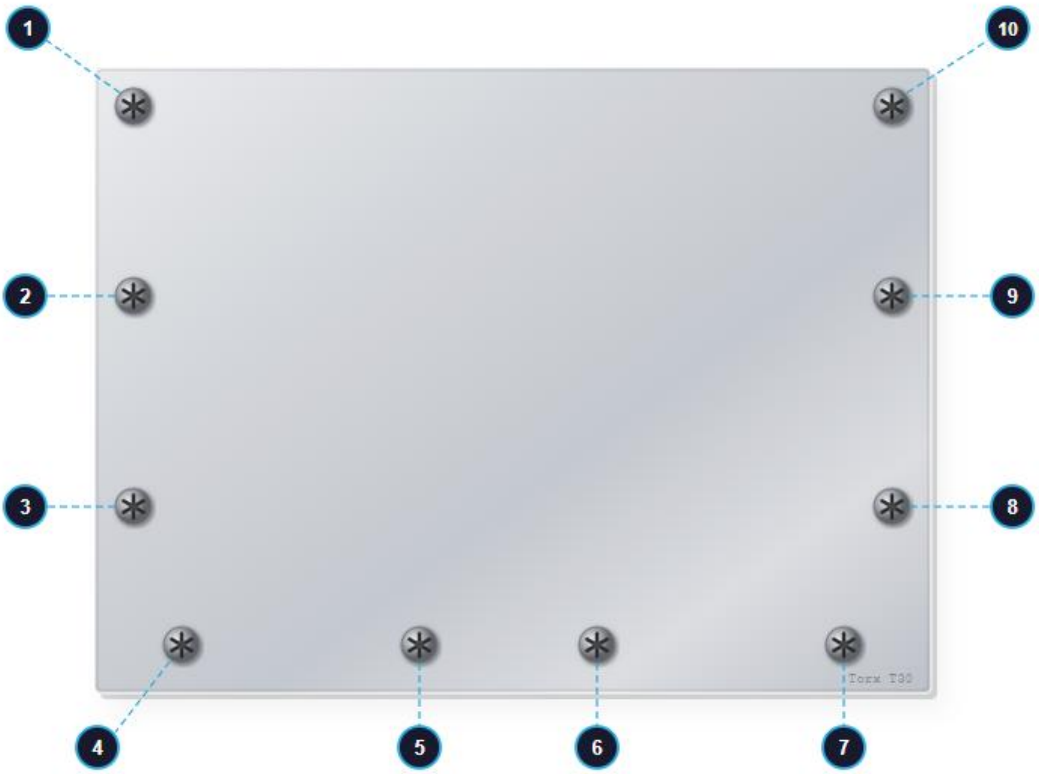
6.1 Sim card

Tools

- Torx 30
- Torque wrench

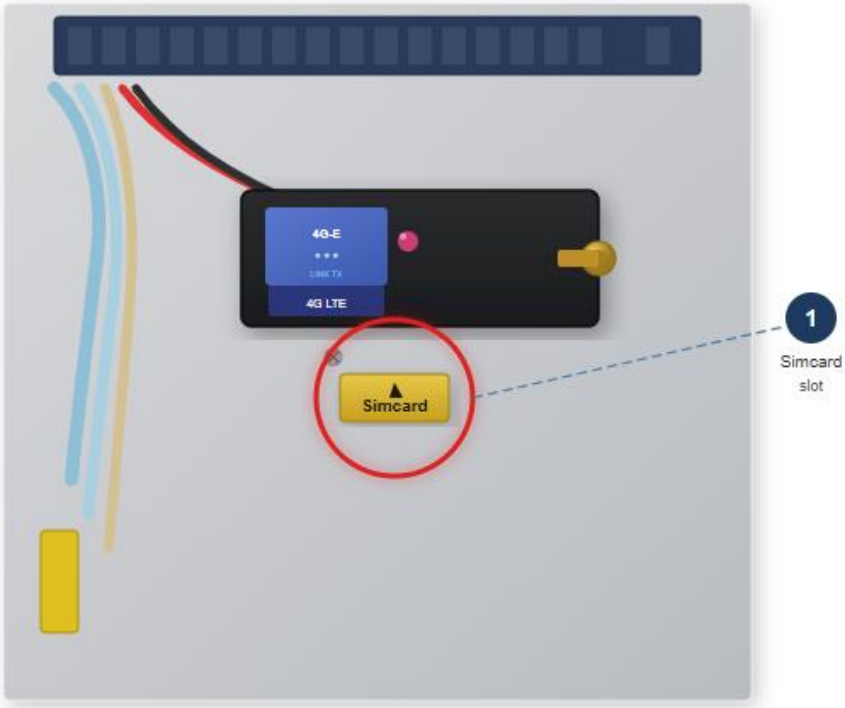


6.1.1 Steps for removing side plate



1. Remove the 10 bolts (TX30)
2. Slide off the plate

6.1.2 Insert the SIM



Scanpotec ApS · SQYPower · GSM/GPS modem · Simcard placering

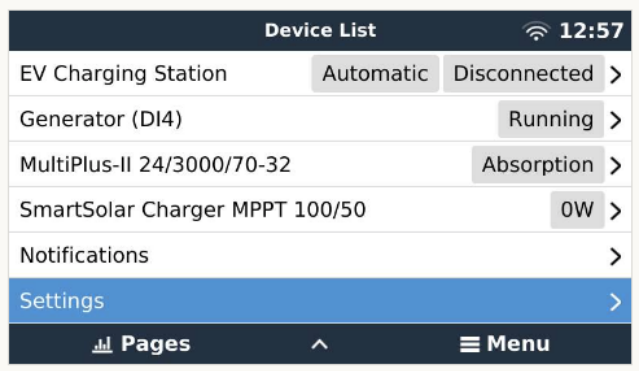
Inside you will find the modem, use a small needle to get the SIM card tray out, and then insert the SIM card.

Be aware that the SIM card tray sits slightly recessed inside the unit. Be sure to push it all the way in.

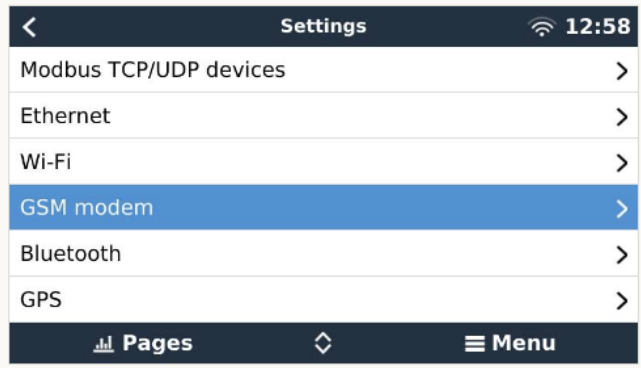
6.1.3 Setup the SIM

Please get a data sim, with no pin-code. If there are a pin on, talk to the provider and setup the sim through your phone.

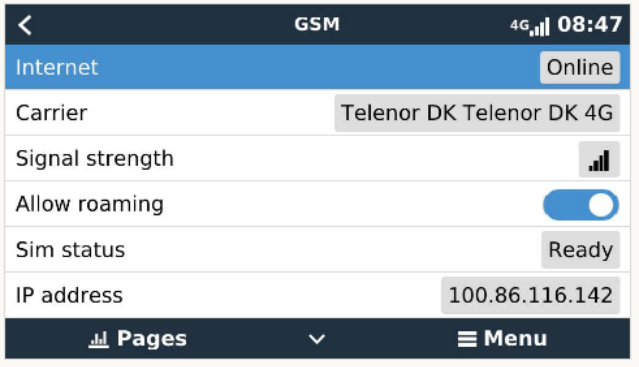
Data amount: min 5 GB



6.1-1: Go to settings

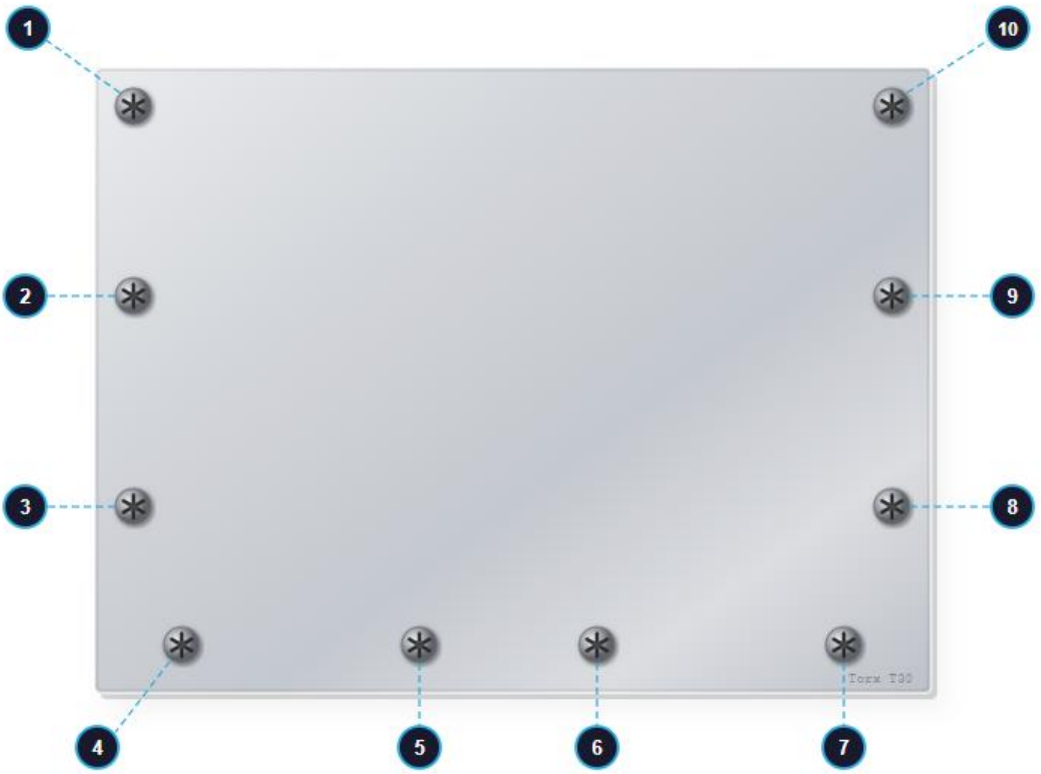


6.1-2: Go to GSM



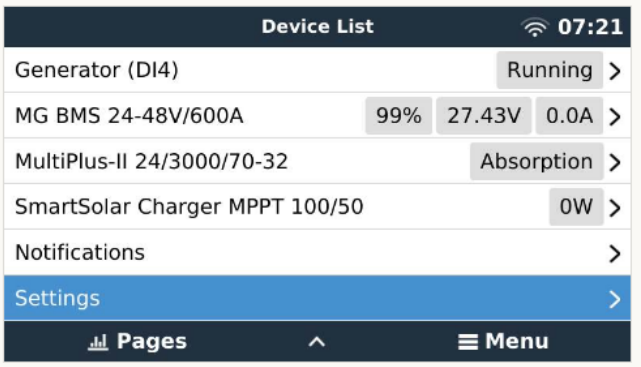
6.1-3: It takes a few minutes to detect. And then it's online.

6.1.4 Steps for mounting side plate:

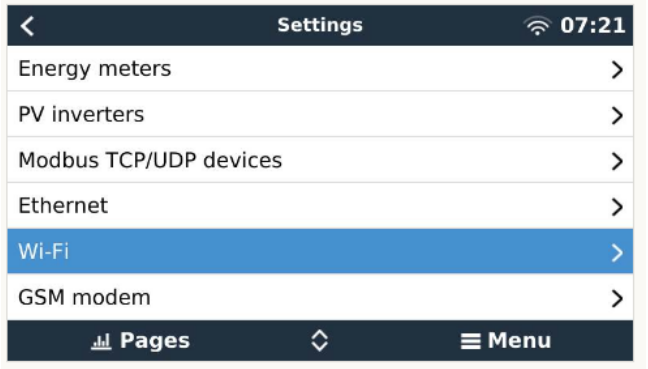


1. Place the side plate
2. Hand screw the 10 bolts in
3. Use the Torque wrench, and tighten all the bolts to 6NM

6.2 How to connect to Wi-Fi

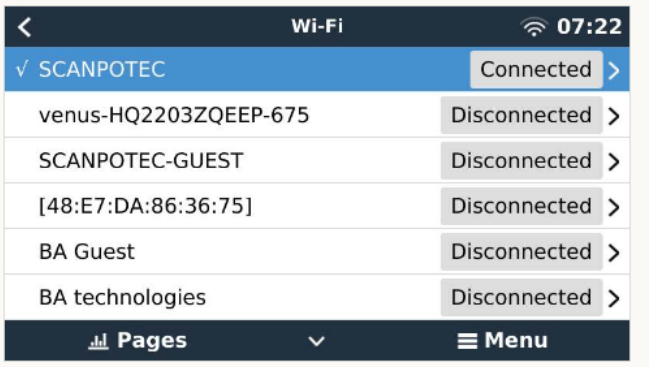


6.2-1: Go to Settings → Wi-Fi

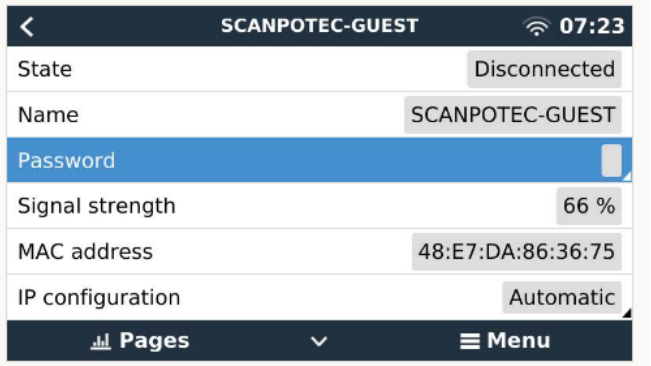


6.2-2: Scan available networks

6.2-3: Select your local Wi-Fi SSID



6.2-4: Enter your router's Wi-Fi password



6.2-5: Save and confirm connection

7 Maintenance

The unit does not have any user-serviceable parts.

If you need service, contact your dealer.

For maintenance charging of batteries, the system must be charged minimum every month for 24 hours. Maintenance charging during storage must be done according to the section

7.1 Sirene and Cut-Off

Sirene starts when the battery voltage is under 45,6 VDC, it will continue until the voltage gets above 45,6 VDC for 30 sec.

Cut-Off to protect the batteries from deep discharge, happens at 40,8 VDC. This means that the unit is no longer able to work free of main power until there have been preformed a full charging cycle.

8 Remote monitoring

8.1 VRM portal

Via the build in 4G module it is possible to monitor the SQYPower unit over Victron VRM Portal. When a sim card is added.

The VRM portal is accessible via Victrons Homepage www.victron.com or via Victrons free VRM App.

8.2 GPS tracking

Via the build in GPS antenna, it is possible to track the SQYPower unit over Victron VRM Portal.

9 Environmental requirements

9.1 Usage

The unit is intended for outdoor use.

This unit may not be stacked and must always be stored and operated in upright position.

9.1.1 Work in a lifting bag

To prevent overheating when working from a lifting bag sufficient air flow must be provided, either through air channels in the lifting bag or by opening the bag.

9.2 Handling / Transport

On handling/transport of the unit, ensure that the mains supply and connection to load are disconnected. The unit must remain in a vertical position during all shipping and handling operations.

Warning! – HEAVY WEIGHT - Do only lift with pallet lift or forklift.

9.3 Storage

It is recommended to store the unit with mains supply connected for maintenance charging of the batteries.
If mains supply is not available, please turn of the unit using the on/off switch (12)

Store the product in a dry environment. Recommended storage temperature is 20°C or lower with maximum humidity of 95% non-condensing.

9.4 Disposal

The Unit contains batteries and electronics. Do only disposal by a recycle agency recognized by official authority.

10 Lifetime

Expected life of the unit is dependent of temperature and usage.

Cycle design life of batteries:

1800 cycles @ 30% discharge.
750 cycles @ 50% discharge.
500 cycles @ 80% discharge.

Followed by immediately recharge

Temperatures higher than 20°C will shorten battery lifetime.

11 Warranty

12 months from delivery.

12 Technical specification

Specification	
Input 1:	CEE 1P+N+PE 16A
Input 2:	CEE 3P+N+PE 16A
Ground connection:	Ø10
AC input 1 voltage:	230+N+PE Vac
AC input 2 voltage:	3x400+N+PE Vac
AC input frequency:	50 Hz
Max AC input current:	16A
Max size of input protection:	16A
Recommended input protection:	16A
Output:	CEE 3P+N+PE 32A
Output voltage:	3x400V+N+PE Vac
Output power:	15kVA / 12kW @ 25°C
Output peak power:	27 kW
Battery type:	Lead Acid - AGM 12V 200Ah
Battery capacity:	48V/200Ah
Charging time (1P/16A)	8h when battery is discharged to 100Ah
Backup time at 5 kW (off grid):	Approx. 45 minutes
Operation ambient temp.:	-10 to +35°C (Battery capacity will decrease in low temperature).
Storage temp. (Recommended):	20°C or lower
Cooling:	Fan cooled
Protection category:	IP54
Humidity (non-condensing):	Max 95%
Product weight:	Approx. 376 kg
Product dimensions (LxWxH):	110x60x80 cm
Standard:	DS/EN 61439-2: 2011

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14 Appendix 1: Declaration of Conformity

SCANPOTEC
SCANDINAVIAN POWER TECHNIC

Udskrevet: 15. september 2025

EU Overensstemmelses erklæring

Undertegnede, der repræsenterer følgende fabrikant inden for EU.

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Erklærer hermed at produktet

SPT6479: SQYPower

Er i overensstemmelse med bestemmelse I følgende EU-direktiver

1. Lavspændingstavler DS/EN IEC 61439 – 2: 2011

Standarter

DS/EN IEC 61439 – 2: 2011

Lavspændingstavler – Del 2: Effektfordelingstavler

Underskrevet for og på vejne af
Scanpotec ApS

15/09 2025

Karsten Møller
Afdelingsleder

Underskrift

15 Appendix 2: Off grid

The unit supply the load only from the internal batteries.

Depending on the load the unit needs to be fully charged every day.

OBS: This mode will reduce the available power and peak power. It might also reduce the functionality of connected devices.
"Off-grid operation shall be risk assessed specifically in relation to the planned task".

16 Appendix 3: Power-assist

Power assist allows the unit to supplement the load from both mains and battery. When peak power is required for a limited period, the unit will make sure that insufficient AC mains is immediately compensated by power from the battery. When the load reduces, the spare power is used to recharge the battery.

Depending on the load the unit needs to be fully charged every day.