



# SQYPower LFP heated - 48-200

Manual:

SPC250152-Power-Bank-LFP

Valid for Version LFP\_v1

<i>Version:</i>	<i>Date:</i>	<i>Revision:</i>	<i>Initials:</i>	<i>Correction:</i>
LFP_v1	04-03-2026	1.0	JHJ & KM	General update of the manual

# 1 Index

2	Safety instructions .....	2
3	Description .....	2
4	Operation .....	3
4.1	Switching on/off .....	3
4.1.1	ON .....	3
4.1.2	OFF .....	3
4.2	Charging .....	3
5	Installation .....	4
5.1	Ground connection .....	4
5.2	Connection of AC cabling .....	4
6	Connectivity .....	5
6.1	Sim card .....	5
6.1.1	Steps for removing side plate: .....	5
6.1.2	Insert the SIM .....	6
6.1.3	Setup the SIM .....	6
6.1.4	Steps for mounting side plate: .....	8
6.2	How to connect to Wi-Fi .....	8
7	Maintenance .....	10
8	Remote monitoring .....	10
8.1	VRM portal .....	10
8.2	GPS tracking .....	10
9	Environmental requirements .....	10
9.1	Usage .....	10
9.2	Handling / Transport .....	10
9.3	Storage .....	10
9.4	Disposal .....	10
10	Lifetime .....	11
11	Warranty .....	11
12	Technical specification .....	12
13	Copyright .....	12
14	Appendix 1: Declaration of Conformity .....	13
15	Appendix 2: Off grid .....	14
16	Appendix 3: Power-assist .....	15

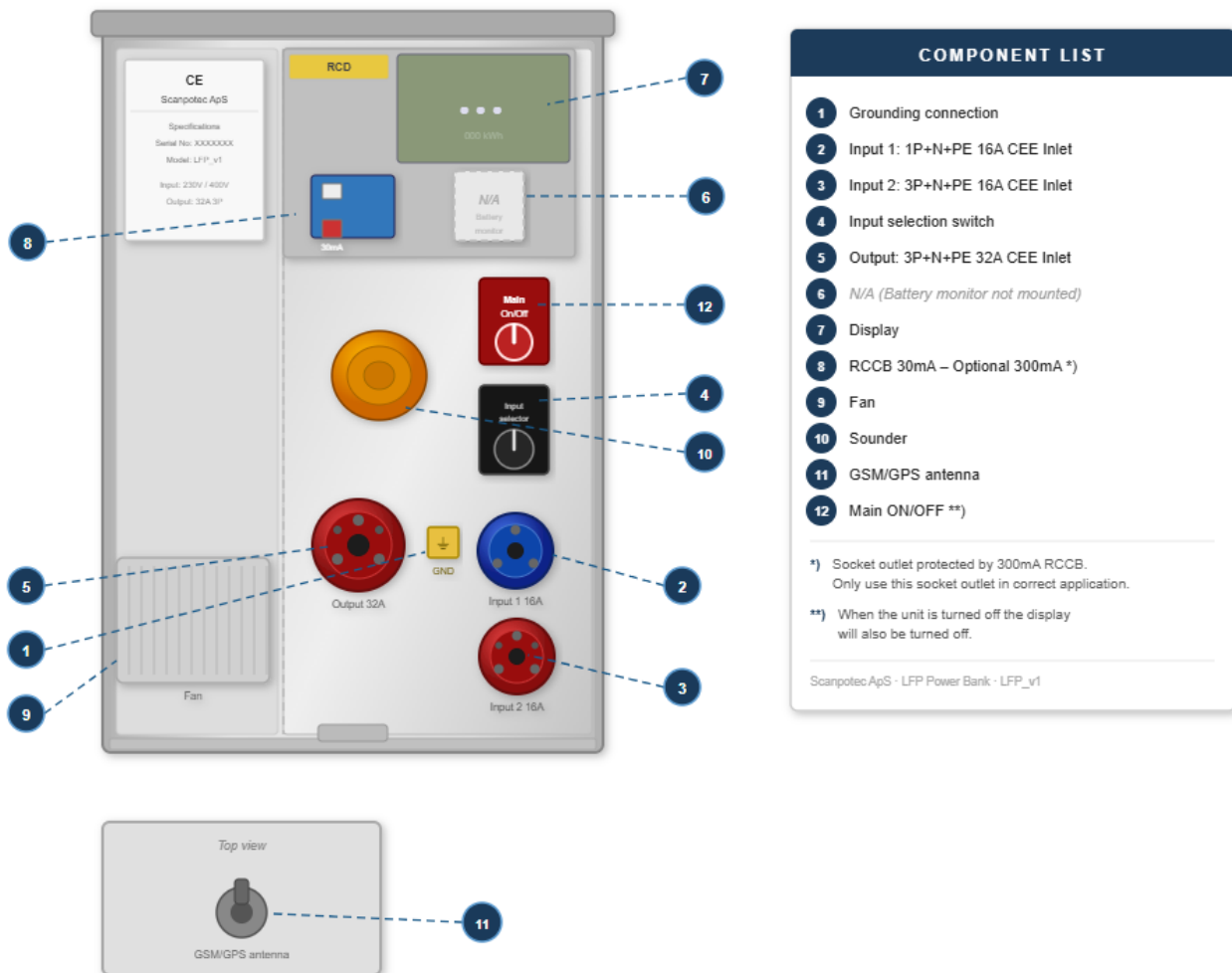
## 2 Safety instructions

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

The unit is intended exclusively for off-grid<sup>1</sup> or power-assist<sup>2</sup> 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



<sup>1</sup> Ref. App. 2

<sup>2</sup> Ref. App. 3

## 4 Operation

The unit is designed for off-grid<sup>3</sup> supplying 3x400VAC to SQYFlex. The unit will power the load from batteries that are continuously 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.

**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

**Note:** Charging is enabled only when battery core temperature is >5 °C. Heating activates when grid supply is connected. Battery discharge is recommended below 5 °C. Operation is not possible below -20 °C. Load on L2 and L3 is required.

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; full charging is required for accurate SoC indication.

---

<sup>3</sup> 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<sup>2</sup> at max 20 meters.

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

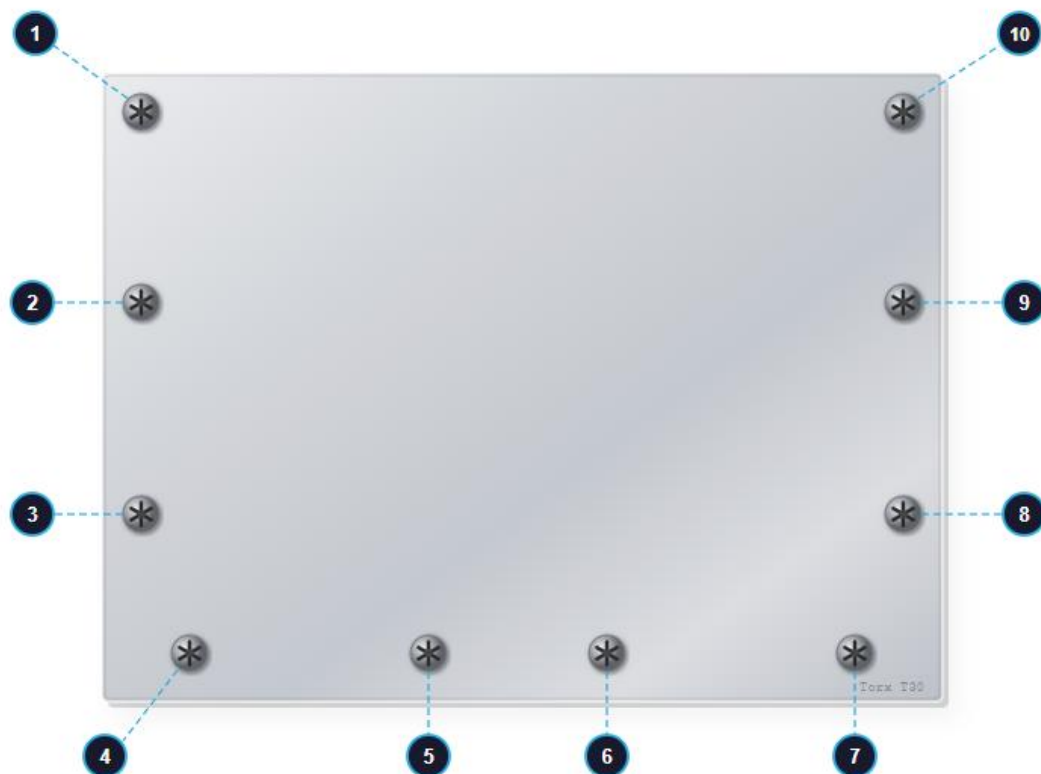
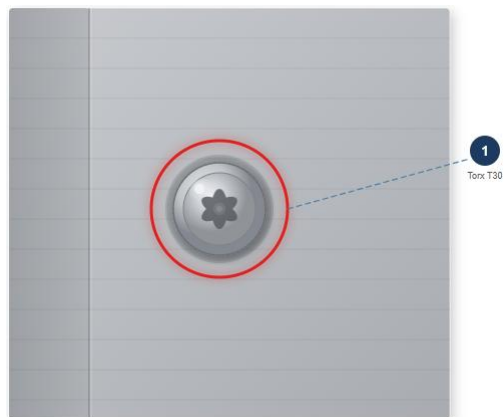
## 6 Connectivity

### 6.1 Sim card

#### Tools

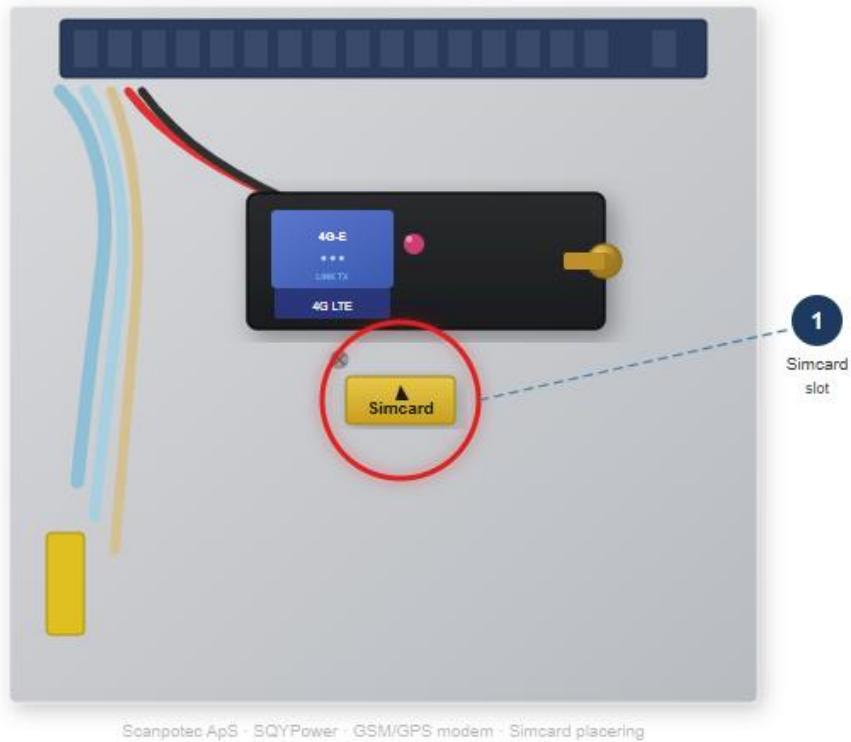
- Torx 30
- Torque wrench

#### 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



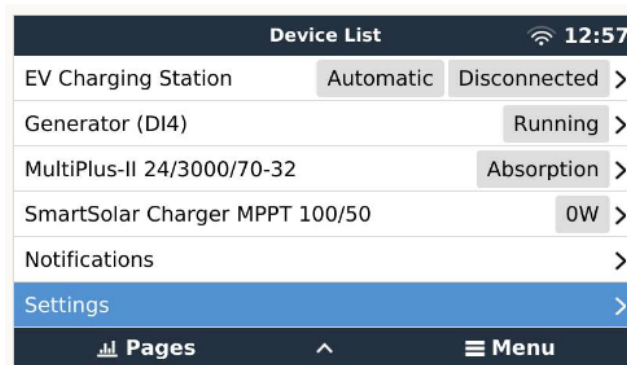
Inside you will find the modem, use a small needle to get the SIM card tray out, and then insert the SIM card.

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

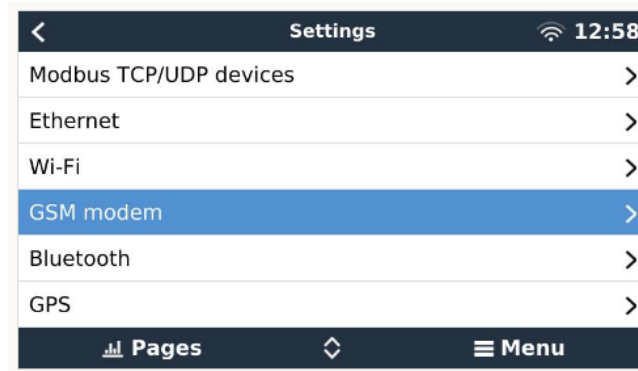
### 6.1.3 Setup the SIM

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.

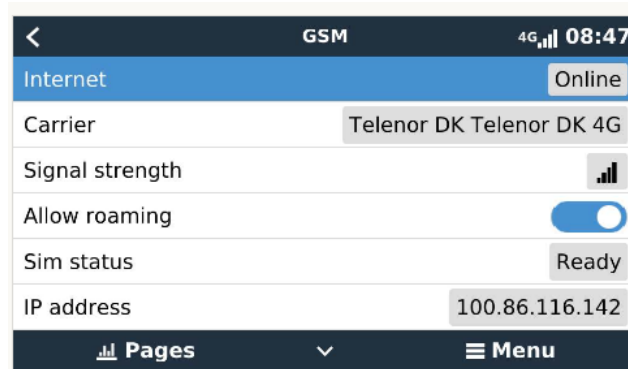
Data amount: min 5 GB



6.1-1: Go to settings

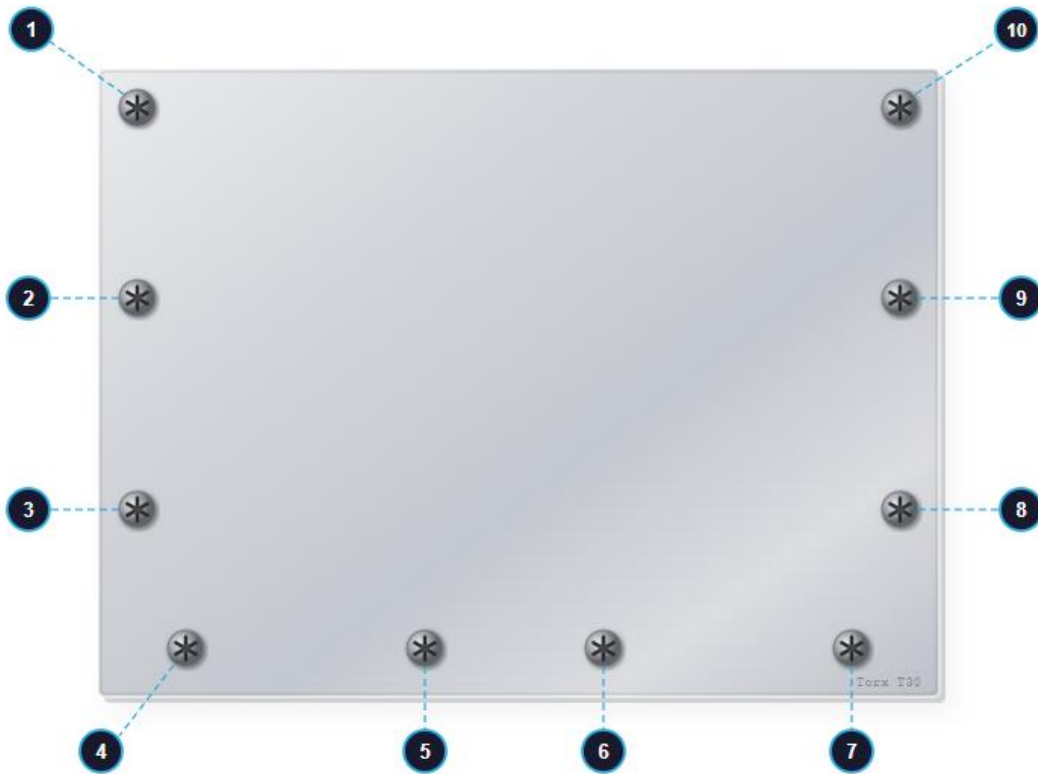


6.1-2: Go to GSM



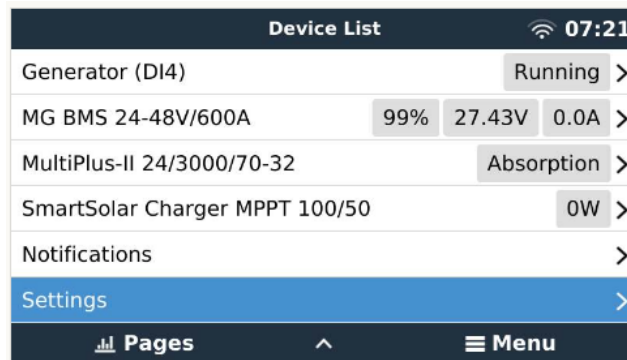
6.1-3: It takes a few minutes to detect. And then it's online.

#### 6.1.4 Steps for mounting side plate:

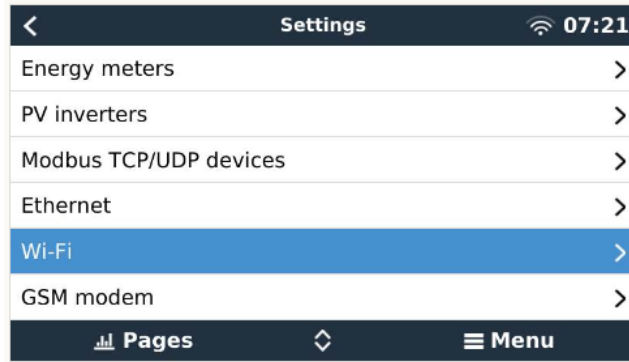


1. Place the side plate
2. Hand screw the 10 bolts in
3. Use the Torque wrench, and tighten all the bolts to 6NM

#### 6.2 How to connect to Wi-Fi



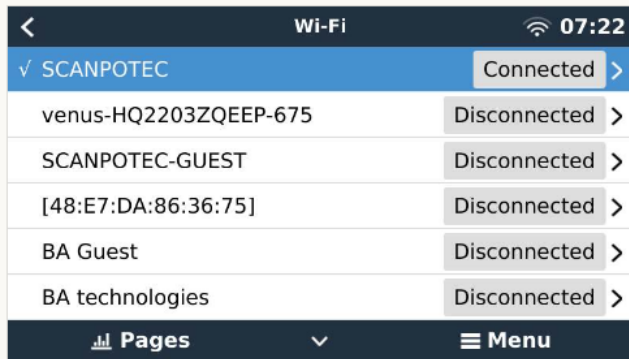
6.2-1: Go to Settings → Wi-Fi



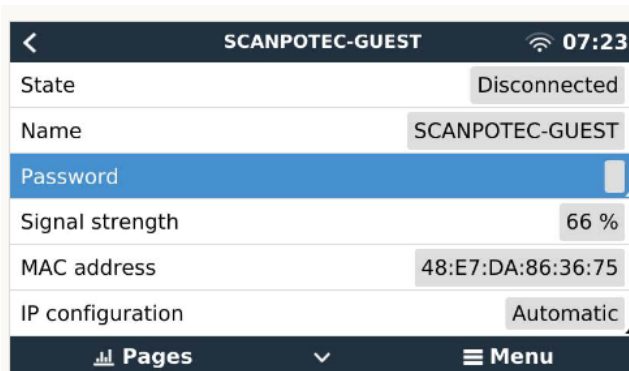
6.2-2: Scan available networks



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 and have a charging time in absorption for 2 hours. Maintenance charging during storage must be done according to the section Storage.

Under conditions there the battery is under 5 °C in core temperature, charging the battery is not possible.

## 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](http://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:

5.000 cycles @ 50% discharge.

3.000 cycles @ 70% discharge.

2.500 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:	6 kW @ 25°C with frequency conversion
Battery type:	LiFePO4 Battery 25,6V/200Ah NG
Battery capacity:	48V/200Ah
Charging time (3P/16A)	Approx. 2 h Min. ones a month perform a full charge + 2 hours absorption
Autonomy time @ 25°C @ nom. load 6 kW	Approx. 70 minutes
Operation ambient temp.:	Discharge: -20 to +50°C Charge: +5 to +50°C
Working temperature avg. in the transformer	Approx. 50°C
Storage temp. (Recommended)	20°C or lower
Storage time (Recommended)	Max 12 months without charging
Cooling:	Fan cooled
Heating:	2 x 230 VAC 85w Silicone heater
Protection category:	IP54
Humidity (non-condensing):	Max 95%
Product weight:	Approx. 210 kg
Product dimensions (LxWxH):	110x60x80 cm
Standard:	DS/EN 61439-2: 2011

## 13 Copyright

All rights reserved to Scanpotec ApS.

## 14 Appendix 1: Declaration of Conformity

Udskrevet: 19. december 2025

### EU Overensstemmelses erklæring

Undertegnede, der repræsenterer følgende fabrikant inden for EU.

Scanpotec ApS

CVR-nr: DK-42199575

Tlf: +45 7244 9090

Centervej 26, DK-4180 Sorø

Web: [www.scanpotec.dk](http://www.scanpotec.dk)

Mail: [info@scanpotec.dk](mailto:info@scanpotec.dk)

#### Erklærer hermed at produktet

SPT6828: SQYPower LFP

#### Er i overensstemmelse med bestemmelse i følgende EU-direktiver

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

#### Standarder

DS/EN IEC 61439 – 2: 2011

Lavspændingstavler – Del 2: Effektfordelingstavler

Underskrevet for og på vegne af

Scanpotec ApS

19.12.2025



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 are 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.

