



Portable power station **Moduloo Ex range** 

Quick start guide

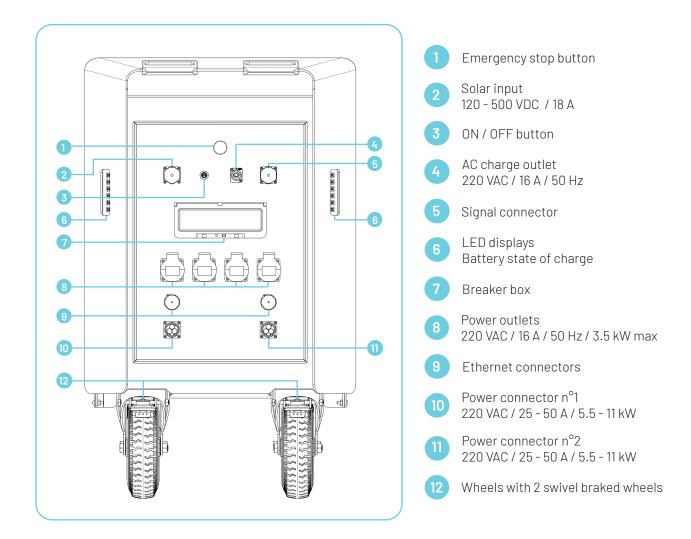


V2.0 - 14/02/2024

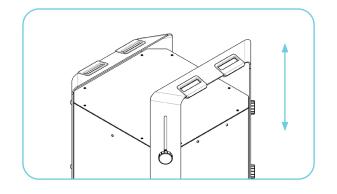


## User interface

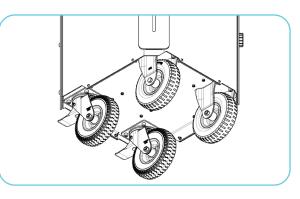
#### PowerBox



### Telescopic handle



#### All-terrain wheels

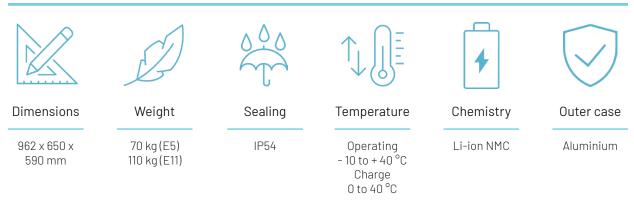


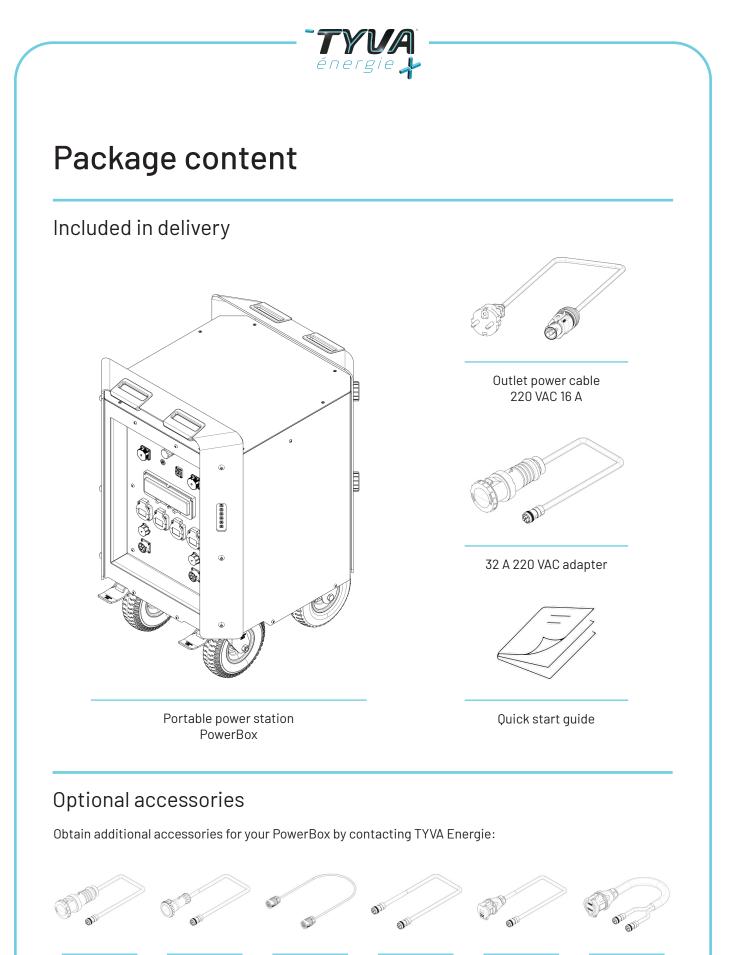


## **Electrical specifications**

PowerBox	E5	E11
Available energy /kWh	6	11
5 kW DC / AC single-phase converter	1	2
Output power /VAC	220	220
Frequency /Hz	50	50
16 A outputs	4	4
Peak discharge power /kW	3.5	3.5
25 A and 50 A outputs	2 x 25	2 x 50
Peak discharge power /kW	5.5	11
Recommended charge time /hours	4	4
Power outlet	E5	E11
Input power /VAC	220	220
Maximum continuous charge power /kW	1.6	2.8
Solar recharge	E5	E11
Input power /VDC	120 - 500	120 - 500
Maximum continuous charge power /kW	5.5	5.5
Maximum continuous charge current /A	18	18

## **Mechanical specifications**





220 VAC 63 A adapter

Additional 220 VAC 32 A adapter

Communication harness (paralleling)

Power harness (paralleling)



Marechal adapter DS6 position 17



## Starting up

#### Control before use

- 1. Make sure the emergency stop button is disarmed.
- 2. Put every switches of the breaker box on the position ON.
- 3. Adjust brakes according to your needs.
- 4. Keep the charge cable nearby.

# 3

#### Use

- 1. Take the suitable adapter among the accessories included in delivery.
- For a current lower or equal to 16 A, connect the cable to the PowerBox on one of the four plugs 1 provided for this purpose. For a current higher than 16 A, connect on one of the two plugs 2 dedicated. Finally, plug the opposite end to your application.
- 3. You are now powering your application thanks to the PowerBox and you can use it as you wish.
- 4. Unplug the cable and switch off the PowerBox to end the use.



The PowerBox can only be used in a - 10  $^{\circ}$ C to + 40  $^{\circ}$ C temperature range. It follows a specific security protocol that cannot be bent outside this range.

Charge is impossible if you exceed the 0 to + 45 °C temperature range.

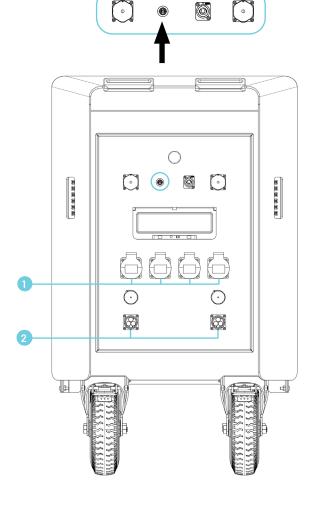
Discharge is impossible if you exceed the - 20  $^{\circ}\text{C}$  to + 60  $^{\circ}\text{C}$  temperature range.

# 2

#### Power up / down

- 1. Press the ON / OFF button once.
- 2. The indicator light on the button is blinking to indicate the system's switching on. It stays lit once the PowerBox is ready for use.
- 3. Press once more to switch off the station. Make sure not to store it while discharged.

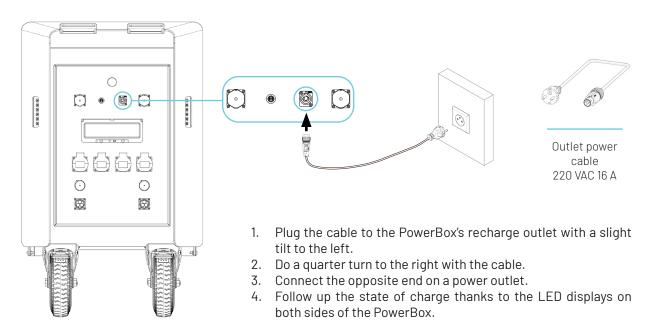
ON / OFF button



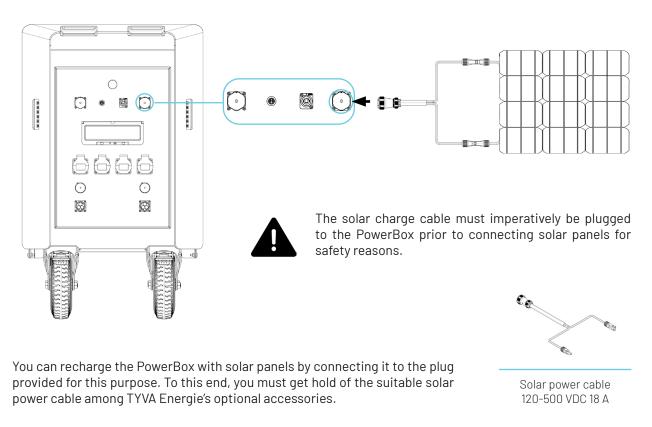


## Recharge

### Outlet charge



#### Solar charge

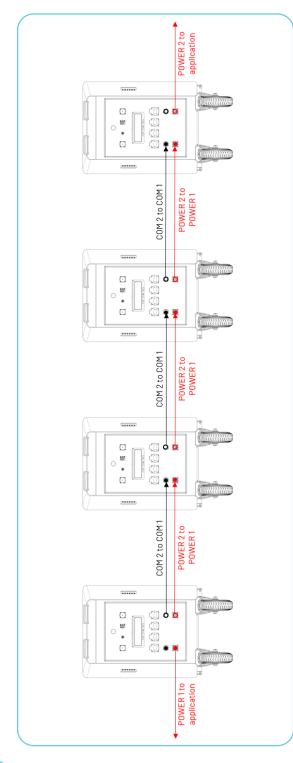




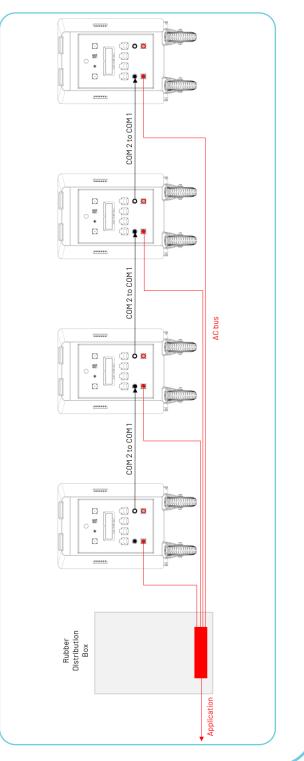
## Parallelization

You have the possibility to parallelize up to 12 PowerBox E5 or 6 PowerBox E11 in order to aquire autonomy or power. Please refer to the user manual to learn more and contact TYVA Energie to obtain the necessary additional accessories.

#### Autonomy gain



Power gain





## **TYVA Smart Dashboard**

#### Download

Download our TYVA Smart Dashboard monitoring app, the genuine mobile dashboard available on Android and iOS smartphones and tablets, then connect yourself to the system with Bluetooth!



By downloading the TYVA Smart Dashboard app, you accept the terms and conditions of TYVA Energie's Privacy policy. Learn more: <u>https://tyva-energie.com/en/privacy-policy/</u>

#### Interface

The TYVA Smart Dashboard digital app allows you to supervise the global system of your portable power station made up of TYVA Energie's lithium batteries. It includes four tabs:





## Status

#### Indicator light

The light in the middle of the ON/OFF button repeatedly blinks depending on the PowerBox's various states as described below:

Status	Type of pulse	Description
Idle		1 flash
PduCurrentError		2 flashes
VoltageError		3 flashes
TemperatureError		4 flashes
SystemError		5 flashes
Charge mode		Continuous light disrupted by 1 flash
Discharge mode		Continuous light disrupted by 2 flashes

#### **Digital alerts**

Notifications can be seen in the « Alerts » tab of TYVA Smart Dashboard app:



- Low Voltage
- High Voltage
- NTC Issue
- Warning Bluetooth
- Data Log Issue
- Under-temperature
- Over-temperature
  - Under-voltage
  - Over-voltage
  - Over-current
- PDU Lock
- PDU Failure PDU Over-temperature
- Charge Error
- Cellule Issue
- Short Circuit
- Slave Silent

•

- AFE Issue
- Short Circuit on Precharge

## Any question?



Access to the **Moduloo Ex range's** guides, user manuals and support

Prior to this guide, you must imperatively refer to the safety instructions and the directives listed in the user manual of the PowerBox

