

**WECO**



Neat.  
Flexible.  
Compact.

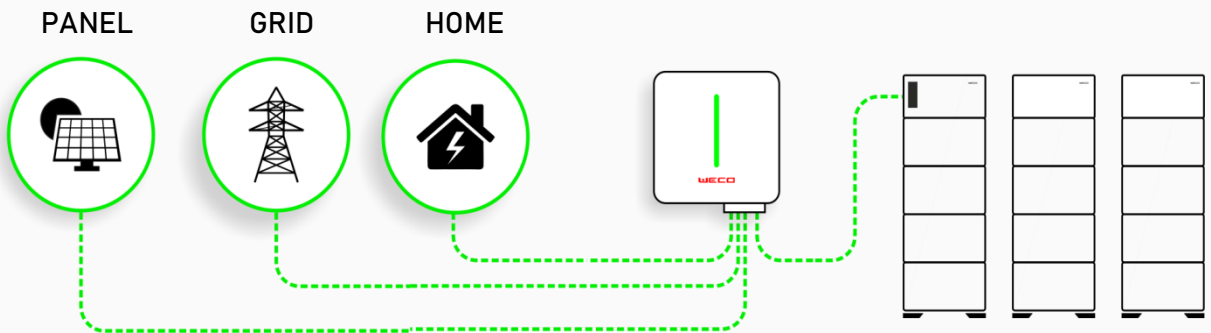
# 5K0 PRO

## ENERGY STORAGE SYSTEM

Future-proof your home with cutting-edge technology for long-term energy security



Energy  
at your  
Fingertips



# MAKE YOUR HOME GREEN

ELEVATE YOUR LIFESTYLE

Protect Our Planet: Green Smart Homes for a sustainable tomorrow.  
Monitor and automatically manage your 5K0 PRO, solar panels and EV charger,  
with the WeCo App

# 5K0 PRO

RESILIENCE

## Your Ultimate Solution for Extreme Conditions!



Unleash the Power of Outdoor Energy with the  
5K0 PRO Battery

# WECCO

OPERATIONAL

High Voltage

450 Vdc

3 x Cluster Peak Power

42 kw

3 x Cluster Capacity

60 kwh

Outdoor  
installation



Ambient  
Operative  
Temperature

-10

+40 °C

Active Balancing  
System at Pack Level



5K0PRO



## FEATURES



### IP65 CERTIFIED FOR THE GREAT OUTDOORS

Designed to brave the elements, the 5K0 PRO is your all-weather ally. With its IP65 rating, it's dust-tight and water-resistant, ensuring peak performance in any outdoor scenario.



### BUILT-IN HEATING SYSTEM FOR CHILLING CLIMATES

Our cutting-edge heating system keeps the battery cells above critical temperatures, ensuring unwavering performance even in freezing conditions.



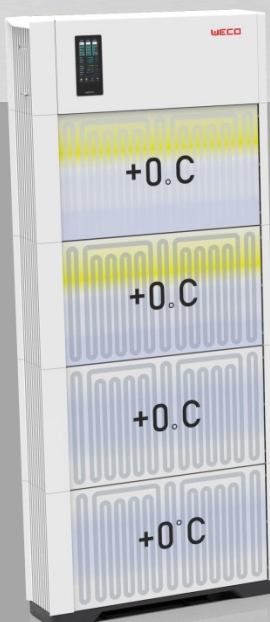
### PLUG & PLAY

Easy installation, just 20 minutes in two persons, no set up is required and no cables between inverters and batteries, all is plug and play and cables less. Installation method error free and with final self check control made via APP using the Wizard commissioning Tool.

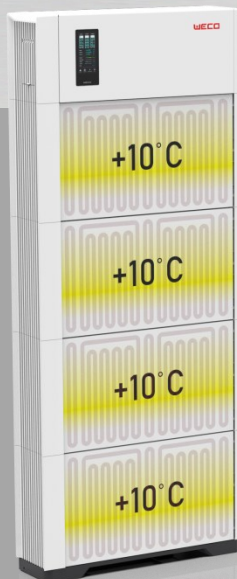


### ADVANCED FIRE SUPPRESSION IN EVERY MODULE

Safety first and always!  
Each 5K0 PRO module comes equipped with a sophisticated fire suppression system, offering unparalleled safety and peace of mind



Without Dynamic Heating control



With Dynamic Heating control



Individual fire suppression system at pack level when inner temperature is over 160°C

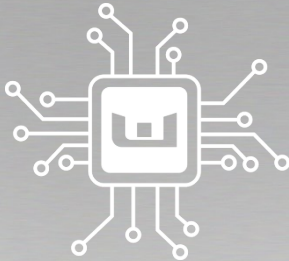


## FEATURES



### SEISMIC PROOF STRUCTURE

The battery exhibits exceptional resilience to seismic activity, ensuring uninterrupted power supply and system reliability during earthquakes.



### Cluster Always Balanced



### MODULARITY MEETS POWER

Scale up effortlessly! Connect up to 4 modules in parallel to form a cluster and link up to 3 clusters for a grand total of 12 units. The 5K0 PRO provides a flexible, scalable, high-capacity energy storage solution that adapts to your ever-changing needs.

- Plug and Play expansion with Master controller.
- Up to 12 modules and 60 kWh.
- Add Cluster Anytime, no time restriction.
- Plug & Play configuration, no settings required.

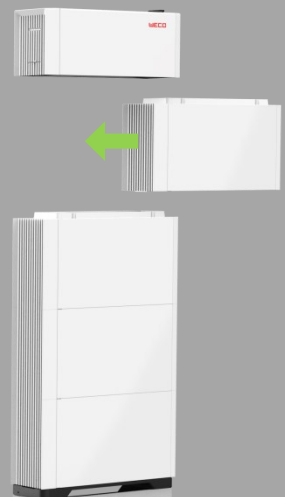
### Easy Expandability at any time



Master Controller



Cluster 1



Cluster 2

Experience unparalleled durability, safety, and flexibility with the 5K0 PRO Battery – your perfect partner for sustainable, high-efficiency energy storage.

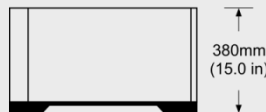
### Specifications



Master Controller



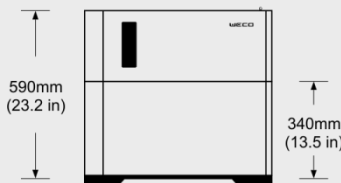
Battery Module



Battery Module



185mm  
(13.4in)



590mm  
(23.2 in)

340mm  
(13.5 in)

630mm  
(24.8in)

#### HV – PACK SYSTEM

#### HV – PACK MODULE & BATTERY

#### DC /DC V-Booster Converter / Operations

System Expandability	Up To 12 Batteries Per System ( max 3 Clusters)
System Nominal Voltage	450 Vdc
System Nominal Current (Three Clusters Full Configuration)	6.0 ~ 72.0 A (6.0 A *12 HV-Pack Modules)
System Protections	Auto Contactor, Fuse, EMS for Current, Voltage, Temperature and CAN BUS Communication
Heating System Ambient Temperature Operations	Up to -10 °C +8 °C
Fire Protection System Activation	165 °C +/- 5 °C
Max. Ambient Temperature Range	Min. -5 °C ~ Max. +40 °C
Installation	Stackable/Floor or Wall Mounted
Performance Warranty	10 years / 6000 cycles
IP Rating	IP65
Communication To Inverter	CAN BUS
External Communication And Monitoring	WiFi Bluetooth (accessory IP65 antenna)
Third Party Insurance	Italian Tier One Insurance
Module Nominal Voltage	450 Vdc
Module Voltage Range	400 ~ 480 Vdc
Battery Type	LiFePO4
Cell Capacity	100 Ah
Total Capacity	5.12 kWh
Charge Mode	CC - CV
Standard Charge / Discharge Current	6.0 Adc / 6.0 Adc
Max. Charge / Discharge Current	8.4 Adc / 8.4 Adc
Battery Inner BMS Protections	Over Charge / Over Discharge Over Temperature / Over Current
Dimensions (W x D x H) (mm)	630 x 340 x 185 (24.8 in x 13.4 in x 7.3 in)
Weight	52 Kg (114.64 lbs)
Communication Method	Cableless Plug & Play
System Type	DC/DC Converters, Isolated Buck / Boost
Low Voltage Battery Side V / I Range	32 - 58.4 Vdc / 50 - 70 Adc
High Voltage V-booster Side V / I Range	400 - 480 Vdc / 6.0 - 8.4 Adc
Standard / Peak Power	2500 W / 3500 W
BMS Operating Temperatures	-20 °C ~ +65 °C

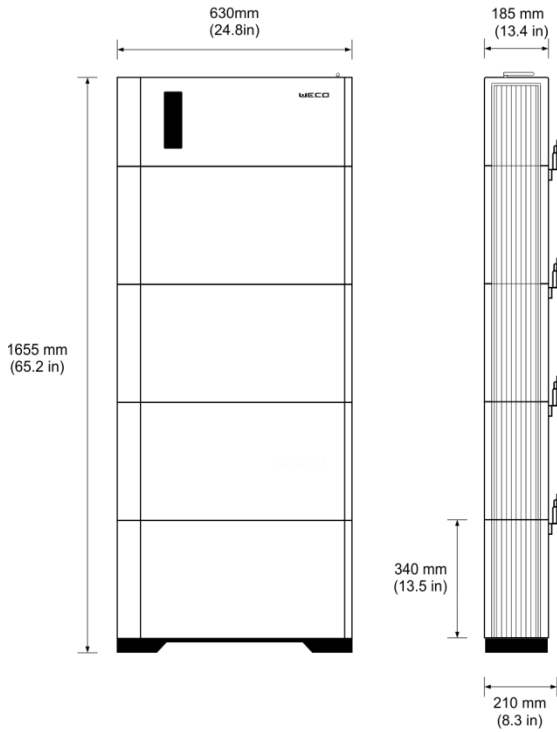
The above-mentioned temperatures are limited to the BMS ranges, such values may not be covered by the performance warranty. We recommend contacting WeCo for the most up-to-date datasheet, read warranty and manual before making any purchasing decisions. No part of this document can be copied or reproduced without WeCo written permission. All data is subject to change without prior notice.

# 5K0 PRO

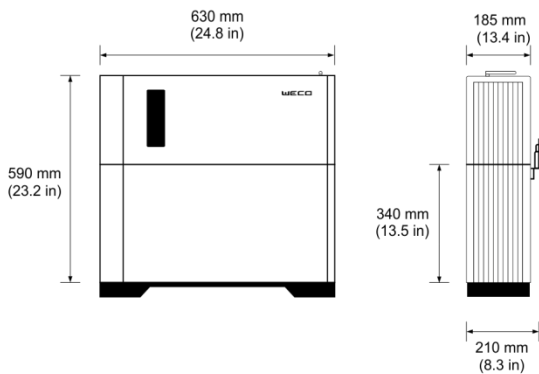
## CONFIGURATIONS



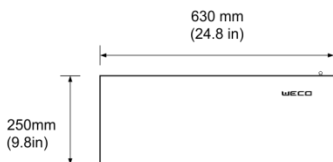
### 4 MODULES + MASTER CONTROLLER WITH DISPLAY



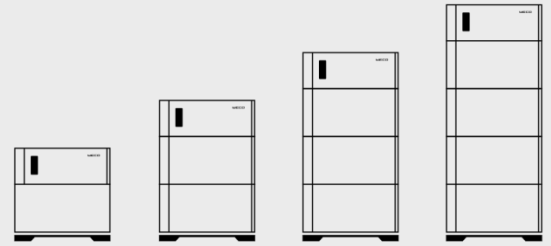
### 1 MODULE + MASTER CONTROLLER WITH DISPLAY



### CLUSTER CONTROLLER (for expansion)



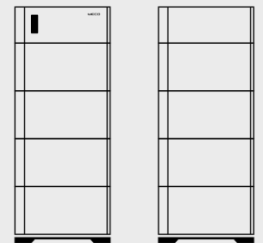
### MASTER



1 MODULE      2 MODULES      3 MODULES      4 MODULES

5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh
450 Vdc	450 Vdc	450 Vdc	450 Vdc

### PARALLEL CONFIGURATION TWO CLUSTERS MASTER + CLUSTER 1



4 MODULES + MASTER CONTROLLER      4 MODULES + CLUSTER CONTROLLER

40.96 kWh  
450 Vdc

### PARALLEL CONFIGURATION THREE CLUSTERS MASTER + CLUSTER 2



4 MODULES + MASTER CONTROLLER      4 MODULES + CLUSTER 1 CONTROLLER      4 MODULES + CLUSTER 2 CONTROLLER

61.4 kWh  
450 Vdc



# 5K0 PRO

ENERGY STORAGE SYSTEM

## FEATURES



### FIRE FIGHTING SYSTEM

Built-in fire suppression kit, 4-layer system level protection, all-round BMS protection.



### RELIABLE

LFP battery, IP65 rated design.



### HEATING SYSTEM

Built-in battery heating module ensuring unwavering performance even in freezing conditions.



### OUTDOOR INSTALLATION

Designed and ready to withstand various weather conditions.



### AUTO BALANCING

System self-balancing logic with predictive algorithm.



### EXPANSION MODULE

EV DC charging module MPPT expansion module.



### USER-FRIENDLY

APP & web portal interface LCD display for easy access.



### EV READY

EV charge and V2H ready.

