

**NEW
PRODUCT**



WECO



Easy.
Flexible.
Compact.

TRI-SMART SERIES

THREEPHASE SYSTEM 8 ~10 ~12 ~15kW
ALL IN ONE

High Voltage Energy Storage

WeCo trademark and logo **WECO** are registered by WeCo Srl (Italy)
The LCA cycle is currently underway for the complete system



Energy at your fingertips

WeCo Cloud Platform

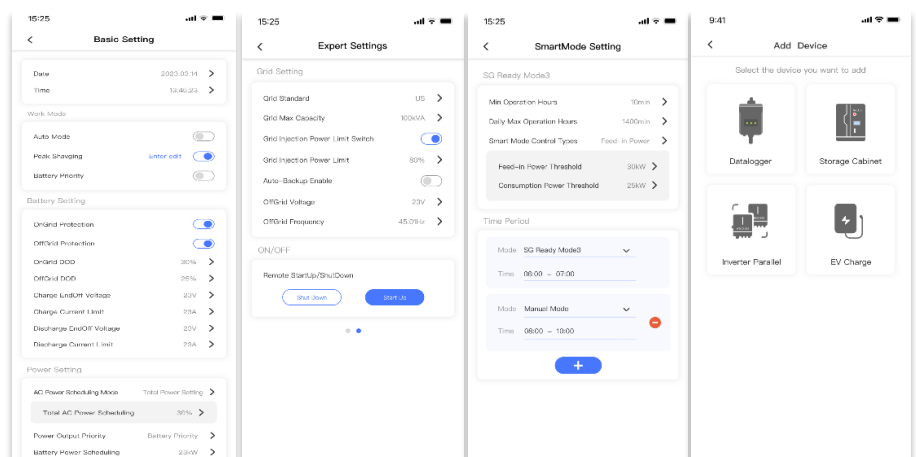


EASY AND INTUITIVE

The wizard allows you to add new devices at any time with just a few clicks. Inverter or EV Charger can be added to the synoptic in one click.

ALL FUNCTION AT YOUR FINGERTIPS

With the NOOR App, the installer has access to all inverter settings even remotely. Technical support from the WeCo team accessible directly from the APP.





FEATURES



IP66 CERTIFIED FOR OUTDOOR INSTALLATIONS*

Designed to challenge every season, the SMART series is your ally for energy security. With its IP66 rating, it ensures dust tight and water-resistant, ensuring maximum performance in harsh conditions.



PLUG & PLAY

Easy installation, only 20 minutes in two people, no manual configuration and no cable between inverter and batteries, everything is plug and play. Error-proof and final self-check installation method via NooR App using the Commissioning Wizard Wizard... even remotely!



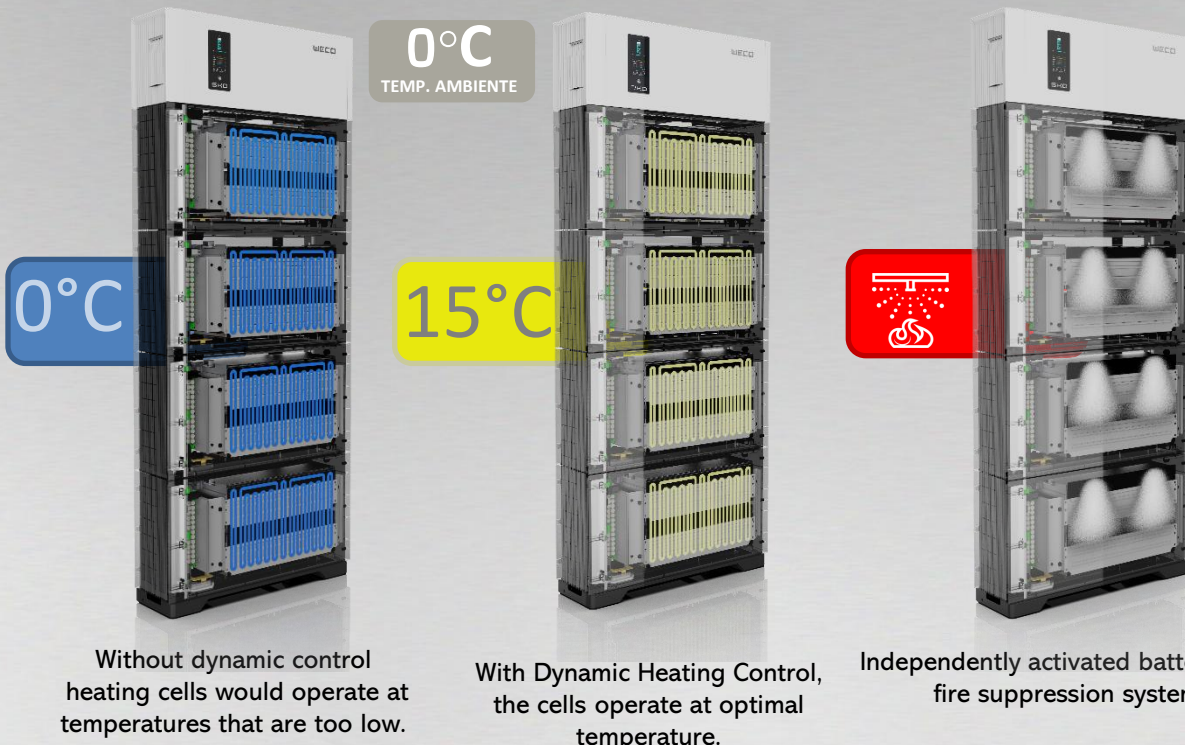
INTEGRATED HEATING SYSTEM FOR COLD CLIMATES

State-of-the-art heating system keeps battery cells above minimum temperatures, ensuring consistent performance even in persistently cold conditions.



ADVANCED FIRE SUPPRESSION SYSTEM

Safety always comes first!
Each battery module is equipped with a sophisticated fire suppression system, providing unparalleled security and peace of mind.



Without dynamic control heating cells would operate at temperatures that are too low.

With Dynamic Heating Control, the cells operate at optimal temperature.

Independently activated battery-level fire suppression system.

* The protection rating of the inverter is IP65, that of the battery is IP66.

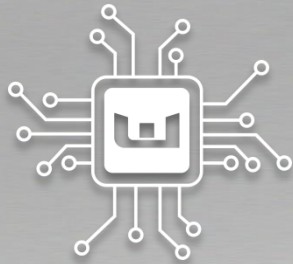


FEATURES

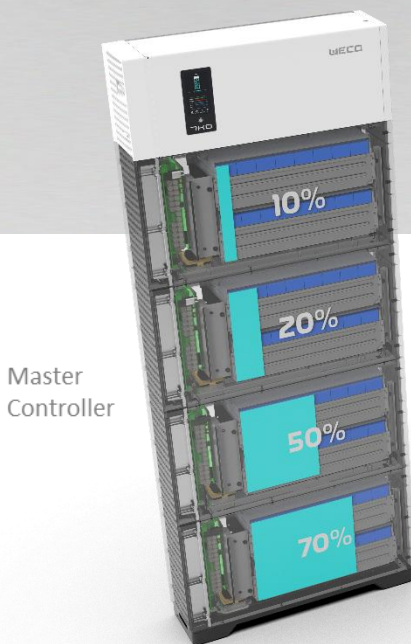


STRUCTURE ANTI-SEISMIC

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



ALWAYS BALANCED CLUSTER



Master
Controller

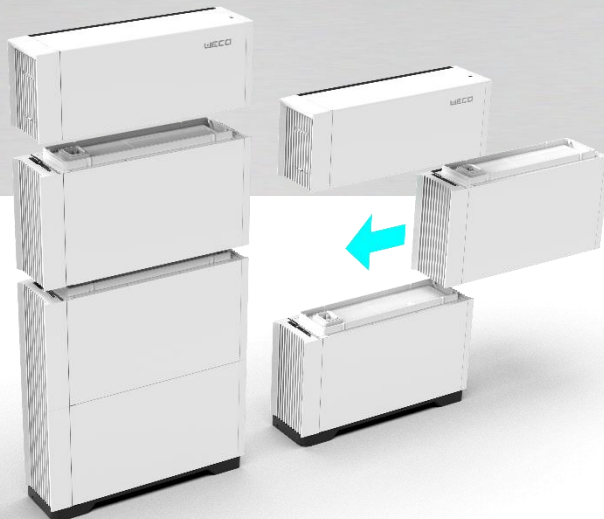


POWER AND MODULAR CAPACITY

Expand effortlessly! Connect up to 4 modules in parallel to form a cluster and connect up to 3 towers for a total of 12 modules. The SMART series offers a flexible, scalable, high-capacity energy storage solution that adapts to your evolving needs.

- Plug and Play expansion with Master controller.
- Up to 12 modules per cluster.
- Add forms at any time.
- Plug & Play Configuration.

EASY EXPANDABILITY AT ANY TIME



Cluster 1

Cluster 2

Experience unmatched durability, safety and flexibility with the 5K0 SMART battery, your perfect partner for sustainable and high-efficiency energy storage.



TRI-SMART

THREE PHASE INVERTER (EU)

Up to 200% DC to AC ratio of PV Power Oversizing

Specifications

	Model	TRI-SMART 8K	TRI-SMART 10K	TRI-SMART 12K	TRI-SMART 15K
INVERTER	Threephase Inverter	8kW	10kW	12kW	15kW
	Expandability	Up to 4 battery modules per inverter, Up to 4 inverters in one system in parallel.			
BATTERY	Cell Type	LiFePO4 (LFP)			
	Capacity	100Ah / 314Ah			
	System Operating Temperature	-5°C + 45°C**			
	Heating System	Module-level integrated			
	Fire Suppression	Module-level integrated			
	Battery Booster Rated Voltage	450V			
	Operating voltage range	400-450Vdc			
	Protocollo CAN	WECCO CAN			
	Maximum Power Input PV Inverter	16kW	20kW	24kW	30 kW
	Maximum Voc voltage MPPT channel	1000 VDC			
SOLAR	PV Start In	125 VDC			
	PV Cut Off	100 VDC			
	MPPT Operating Voltage	125 VDC – 850 VDC			
	MPPT Number	2			
	Maximum Current for MPPT	30A			
	Short Circuit Current MPPT	36A			
	PV Power vs AC Output Ratio	2x			
	Inverter AC Voltage	400 Vac L1/L2/L3/N/PE			
	Frequency	50 / 60 Hz ± 5 Hz			
	Rated Power Output	8kW	10kW	12kW	15kW
AC INPUT/OUTPUT (ON-GRID)	EPS Output Voltage	400 Vac L1/L2/L3/N/PE			
	Frequency	50 / 60 Hz ± 5 Hz			
	EPS Voltage Range	370-430 VAC			
	Frequency	50 / 60 Hz ± 5 Hz			
AC BATTERY OUTPUT (BACK-UP)	Power factor	0.8 (leading)~0.8 (lagging)			
	THDI Inverter	< 2% (Rated power)			
	EPS output power if there is only one battery	2500W / 4000W**			
	EPS output power if two batteries are present	8kVA			
	EPS output power if three or four batteries are present**	8kVA	10kVA	12kVA	15kVA
	Overload power 10s with one battery	4.1kW			
	Frequency	50 / 60 Hz ± 5 Hz			
	EPS switching time	Min 5ms Avg 15ms			
GENERAL PARAMETERS	THDi	< 2% (rated power)			
	EU Efficiency	97%			
	Max. Efficiency	98%			
	Protection	IP66			
	Noise	<50 dB @1m			
	Weight / Dimensions Inverter	28kg / 640x420x210			
	Weight / Dimensions Battery	60 Kg / 630x340x210			
	Installation	Wall/Floor/ Shelf			
	Altitude	9,843 ft / 3,000 m			
	Max. Operating Temperature	-20~50°C/-4~122°F Inverter and batteries will reduce the power reached 40°C			
	Humidity	0 - 95% RH (senza condensa)			
	Portal & App	WeCo NooR APP			
	Interface	APP and LCD			
	SECURITY AND COMPLIANCE	Safety	Heating system, Fire protection, Dynamic control of charge-discharge power, Module insulation		
Standards		IEC / EN 62109-1, IEC / EN 62109-2, IEC / EN 62477-1, IEC / EN 62619-1, IEC 60730 Annex H, IEC 60529, VDE 2510-50, UN 38.3, IEC 61000-6-3, IEC / EN 61000-6-1, IEC 61683			
Grid Standards		NTS 2.1 Type (A), UNE 217001, UNE 217002, RD 244, RD 647, CEI 0-21, VDE-AR-N 4105, DIN VDE V 0124-100, G type A, UKCA			
LIMITED WARRANTY	Limited Warranty	Extendable up to 10 years			
	System Warranty				
NOTE	Note*	For details, see warranty terms and manuals			
	Note**	Depending on the battery configuration, each battery can provide a maximum power of 2.5 kW if 5K0 or 4kW in case of 8K0			

**Le temperature sopra menzionate sono limitate ai range BMS, tali valori potrebbero non essere coperti dalla garanzia di prestazione. Si consiglia di contattare WeCo per la scheda tecnica più aggiornata, leggere la garanzia e il manuale prima di prendere qualsiasi decisione di acquisto. Nessuna parte di questo documento può essere copiata o riprodotta senza l'autorizzazione scritta di WeCo. Tutti i dati sono soggetti a modifiche senza preavviso.

Battery

5K0

& NEW 8K0

COMING SOON

Specifications

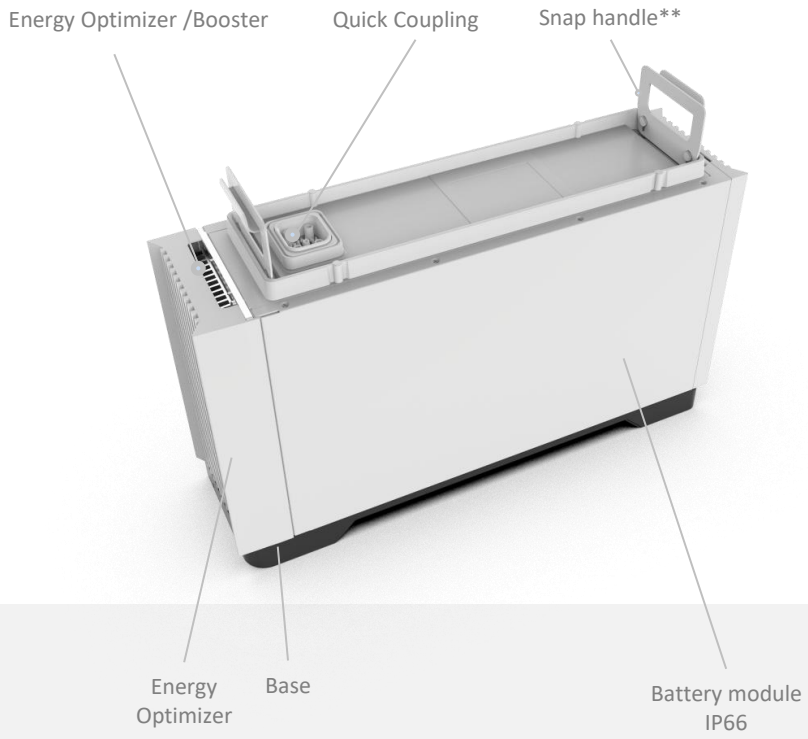
GENERAL PARAMETERS	LiFePO4 (LFP) 5K0	LiFePO4 (LFP) 8K0
Battery cell type	LiFePO4 (LFP) 5K0	LiFePO4 (LFP) 8K0
Nominal capacity	5,12 kWh	8.0 kWh
DoD**	Up to 100%	Up to 100%
Voltage rating	420-450Vdc	420-450Vdc
Weight	50kg	66Kg
Dimensions	669 x 185 x 340 mm	669 x 255 x 340 mm
Maximum altitude	9,843 ft / 3,000 m	
BMS Operating Temperature	-20°C~50°C / -4~122°F	
Storage Temperature	Up to 6 months without charging (see manual for details)	
Operating humidity	0 - 95% RH (senza condensa)	
Certifications	*UL 9540A, UN 38.3, IEC 62619, IEC 60730, IEC 62040-1	

NOTE

Test conditions: 100% depth of discharge (DoD), 0.5C charge and discharge power at 25°C, at the beginning of service life.

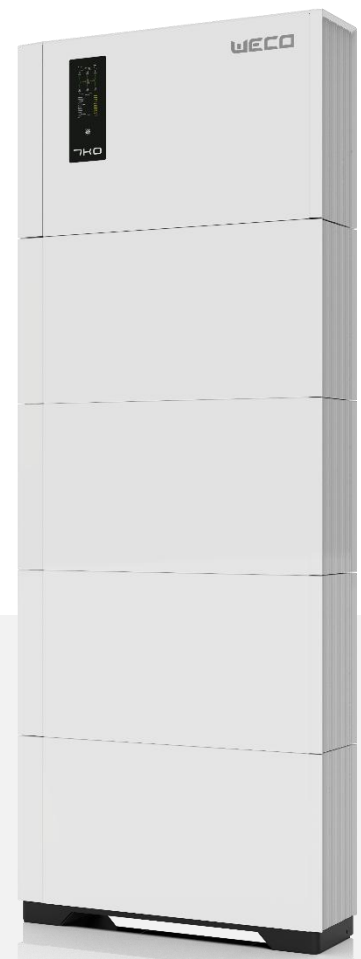
The weight of the battery module may vary between markets, with a tolerance of +3%.

*Certification in progress, more available on request ** See warranty conditions



Easy to install:
Ergonomic handles with each system improve user comfort and ease of deployment, ensuring an easy and efficient setup process.

A 3-element tower can be installed in just 20 minutes



8K0 PRO

We recommend that you contact WeCo for the most up-to-date datasheet, read the warranty and manual before making any purchase decisions. No part of this document may be copied or reproduced without the written permission of WeCo. All data is subject to change without notice.
** Depending on the target market, the battery and handle design may vary in design and interlocking concept.

FEATURES

SAFETY

Integrated Fire Suppression System, Multi-Level Protection, 5-Level BMS Protection

RELIABLE

LFP battery, IP66-rated design, built-in battery heating module.

QUICK INSTALLATION

Stackable modular design, adaptive plug & play self-configuration.

SCALABILITY

Scalable up to 12 modules
Up to 100% DoD Exploitable
Module-level energy optimization, capacity expansion at all times.

EXPANSIONS

DC Charging Module for Electric Vehicles, MPPT Expansion Module to Maximize Solar Production.

EASY TO USE

LCD display on both the app and on the web portal interface for easy access.

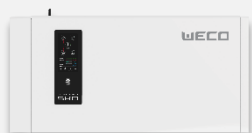


DC AC ratio up to 200% PV

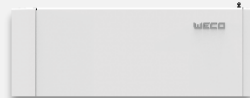
Inverter All-In-One 6 ~ 15 kW

Battery module
8.0 kWh / 450 VDC

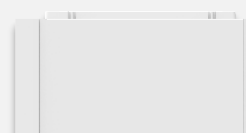
SMART SYSTEM



Hybrid inverter
AC/DC



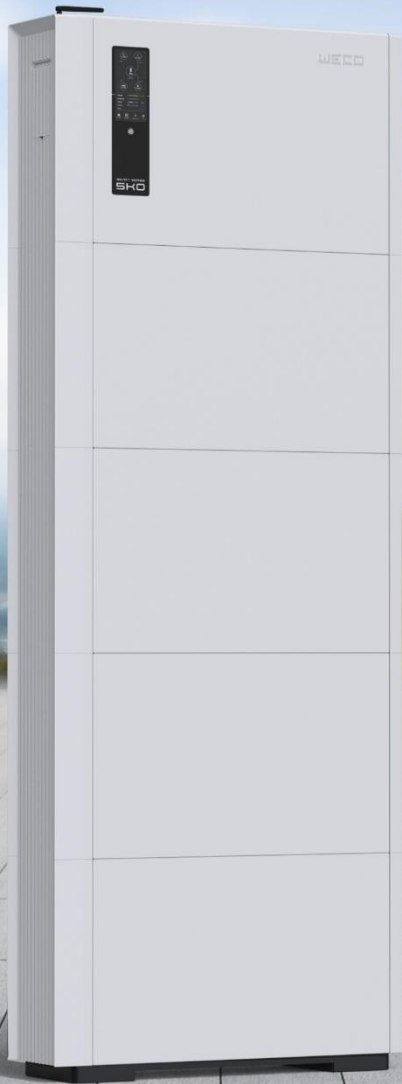
HV Controller
(for parallel)



Battery module
5,1 / 8.0 kWh



EV charger
AC



ENVIRONMENT
SMART-PLATFORM
Total Integration
with WeCo
devices

