



WeCo Rack Mount Low Voltage 5K3-XP

Specification



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WeCo Lithium Energy Storage System

WeCo Rack Mount Low Voltage 5K3-XP

The WeCo Rack Mount Low Voltage 5K3-XP produces 5.3kWh of usable energy and is scalable up to 550 kWh. The rack-mount formation provides compact low-voltage stackable storage and is suitable for a range of applications from residential to industrial, both on and off-grid applications. WeCo modules are compatible with a range of inverters and can be bundled with Valen range of quality products to create full plug-and-play systems.



✓ Features

- WeCo design and produce lithium batteries equipped with the highest quality components.
- Scalable up to 550 kWh LV HUB Self Balancing System for LV Application.
- Each module is 5.3 kWh of usable energy, high energy density, extreme safety, and innovative design.
- Rack High Voltage is the most compact Low Voltage stackable storage for domestic application, plug and play, compatible with several International Inverter.
- Italian Quality & Design - Design and quality in every detail, first-class assistance worldwide from our skilled technicians.



National Coverage

With warehouses located strategically, Valen offers fast and efficient delivery as well as superior service our clients have come to know and depend on.

WeCo Lithium Energy Storage System

Specifications

Parameters	5K3 LV/HV
Module Capacity	5.3 kWh
Single Module Nominal Voltage	51.2 Vdc
Application	Low Voltage Application
Modules Expandibility	LV Mode: Max 15 Modules in Parallel = 1 LV Cluster Max 7 LV Clusters composed by maximum 15 modules in serial connection each + LV H U B
Voltage Range (Vdc)	47.5-58.4 Vdc BMS dynamically adjusts the operating values
Capacity (Ah)	105
Usable Capacity (Ah)	100
Dimension (mm)	550 x 430 x 155
Weight (kg)	57.3
Charge / Discharge Current (A)	100 (150 30sec)
Peak Discharge Current	200 Peak 5 s
Depth of Discharge	Up to 100%
Communication Port	RS485, CAN, 232, Wi-Fi
Modules in serial Connection	Up to 15 pcs in parallel
Discharge Temperature (°C)**	-20 - +60
Charge Temperature (°C)**	-10 - +55
Shelf Temperature (°C)**	-10 - +45
Humidity (%)	5 - 95
Altitude (m)	< 3000
Design life	10 Years (25°C)
Expected Life Cycles EOL 80%	> 7000 (25°C)
Standards IEC62619 UL1973 CE	IEC 61000 UN38.3
Features	Auto balancing BMS, 16 channels equalizer, Module local monitoring,
Protections	Fuse: 150A / 60Vdc Contactor 150A/60Vdc, Real-time balancing, Adaptive charge/discharge CAN logic, Three steps adaptive charging logic, 2xDI/DO programmable ports, Mobile APP for monitoring, control, debugging, firmware update, and historical information.

*- Module net usable energy is managed by the BMS control logic to 100Ah.

** - See Warranty Terms and the Standard Test Conditions "STC" and the operative temperature.

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5K3 -XP Is designed to operate with rack support and indoor or in IP56 Cabinets.

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Rack Mounted 5K3-XP Battery Specification



Battery Module	4	5	6	7	8
Battery System Capacity (kWh)	20.8	26	31.2	36.4	41.6
Voltage (Min/Max)	47.5 / 58.4				
Cabinet Type B (Outdoor+Cooling)	9 RACK				
Cabinet Weight Type B (Empty)	210kg				
Modules Weight (Kg)	229.2 *	286.5	343.8	401.1	458.4



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A/C Cooled Stand Alone Cabinet IP 56/4U Slots



Voltage Range 47.5-58.4

Tower HV Modules	Max Current	Capacity
4	400	20.8
5	500	26
6	600	31.2
7	700	36.4
8	800	41.6
9	800	46.8
10	900	52
11	950	57.2
12	950	62.4
13	950	67.6
14	1000	72.8
15	1050	78

End of Life Recycling

Valen is ISO 14001 accredited and is committed to making a difference to the environment. When your batteries reach their end of life, Valen's recycling program allows you to return your old batteries and put them through the recycling process, reducing landfill to less than 1%.

This process is completed hassle-free and at no cost to our clients.

All raw materials are recycled from your batteries, and any profit from these raw materials is donated to charity.





A family owned Australian business



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ISO 45001 : 2018



OBSEQUIA
QUALITY CERTIFIED
ISO 9001 : 2015



OBSEQUIA
ENVIRONMENT CERTIFIED
ISO 14001:2015