



Powerful.
Robust.
Efficient.



5K3 - XP

HIGH VOLTAGE 4U RACK MODULE

Fan cooled Rack module for Indoor or Cabinet use Only

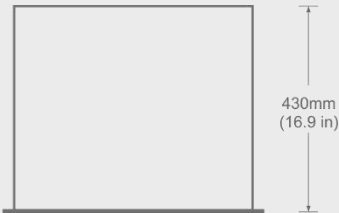


5K3-XP

SINGLE MODULE HV

Specifications

BATTERY	Module Capacity kWh	5,3
	Single Module Nominal Voltage (Vdc)	51.2
	Application	High Voltage Application
	Modules Expandability	HV Mode: Max 16 Modules in Series with Single HV Box = One HV Cluster Max 10 HV Clusters composed by maximum 16 modules in serial connection each
	Voltage Range (Vdc)	47,5-58,4 BMS dynamically adjusts the operating values
	Capacity (Ah)	105
	Usable Capacity (Ah)	100
	Dimension (mm)	600 X 430 X 155
SYSTEM	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
COMMUNICATION	Modules in serial Connection	Up to 17 pcs (993Vdc Max String Voltage)
	Discharge Temperature (°C)**	-20 ~+60
	Charge Temperature (°C)**	-10 ~+55
BASIC PARAMETERS	Shelf Temperature (°C)**	-10 ~+45
	Humidity(%)	5 ~95
	Altitude (m)	< 3000
	Design life	Years (25°C)
	Expected Life Cycles EO L 80%	> 7000 (25° (
	Standards	IEC62619 UL1973 CE IEC 61000 UN38.3
SAFETY STANDARD	Features	Auto balancing BMS, 16 channels equalizer, Module local monitoring,
	Protections	Fuse: 200A / 1000Vdc Four protection logics for HV Box, Real time balancing, Adaptive charge/discharge CAN logic, Three step adaptive charging logic, 2xDI/DO programmable ports, Mobile APP for monitoring, control, debugging, firmware update and historical information.
	Notes	*- 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 All data subject to the change without prior notice, no part of this document can be copied or reproduced without written! permission of WeCo SK3 -XP Is desizned to ooperate with rack suooort and indoor



5K3XP
INDOOR USE ONLY



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, 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.

5K3-XP

HV BOX SAFETY CONTROLLER

Specifications

BATTERY	Application	String Safety Device
	Operative Voltage	150-1000Vdc
	Standard Charge Discharge Current	100A
	Max Charging Current	150A 30 sec
	Max Discharging Current	150A 10 sec
	Manual Breaker capacity	125A (Peak 250 30sec)
	Contactors Capacity	150A (Peak 250 30sec)
	Pre-charge circuit	150 Ohm/ 4 Sec (Contactor Max Current 50A)
SYSTEM	Insulation Monitor	YES
	Fan Controller+ power supply	YES
	Max numbers of modules per string	17/1000Vdc
	Connectors Type	WeCo PLUGS 200A fast connection
COMMUNICATION	Ingress Protection	IP20
BASIC PARAMETERS	Communication Port	RS485, CAN, 232, Wi-Fi, Bluetooth
	BMU Discharge Temperature (°C)**	-20 ~ +60
	BMU Charge Temperature (°C)**	-10 ~ +55
	Shelf Temperature (°C)**	-10 ~ +45
	Humidity(%)	5 ~ 95 No condensation
	Altitude (m)	< 3000
	Design life	10 Years (25°C)
SAFETY STANDARD	Standards	IEC62619 UL1973 CE IEC 61000 UN38.3
	Features	Auto balancing BMS, 16 channels equalizer, Module local monitoring,
	Protections with HV BOX	HV BOX is equipped with 125A Breaker +ISOA contactor + 200N1000Vdc Fuse Four protection logics for HV Box, Real-time balancing, Adaptive charge/discharge CAN logic, Three steps adaptive charging logic, 2xDI/DO programmable ports, Mobile APP for monitoring, control, debugging, and firmware update and historical information. Precharge circuit 150Ohm / 4 seconds



INDOOR USE ONLY



CONFIGURATIONS

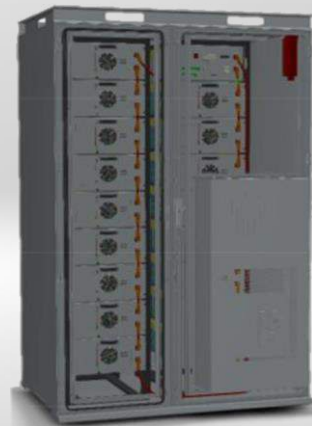


Battery Module	4	5	6	7	8	8+8
Battery System Capacity (kWh)	20.8	26	31.2	36.4	41.6	83.2
Voltage (Min max)	Min 200 max 232	Min 250 max 290	Min 300 max 348	Min 350 max 406	Min 400 max 464	Min 800 max 928
Cabinet Type B (Outdoor + Cooling)	9 Rack					18 Rack
Cabinet Weight Type B (Empty)	210Kg					290Kg
Modules Weight (Kg)	229.2*	286.5	343.8	401.1	458.4	2x458.4
Notes	<p>See warranty terms for Performance warranty applicability. See Performance Warranty Terms and the Standard Test Conditions "STC" for operative temperature and standard current.</p> <p>All data is subject to change without prior notice; always ask WeCo for the most recent datasheet and manual before purchasing. No part of this document can be copied or reproduced without written permission of WeCo.</p>					

Tower HV Modules	Min Volta e SOC 0%	Max Volta e	Capacity
4	190	233,6	20,8
5	237,5	292	26
6	285	350,4	31,2
7	332,5	408,8	36,4
8	380	467,2	41,6
9	427,5	525,6	46,8
10	475	584	52
11	522,5	642,4	57,2
12	570	700,8	62,4
13	617,5	759,2	67,6
14	665	817,6	72,8
15	712,5	876	78
16	760	934,4	83,2
17	807,5	992,8	88,4

CABINET

A/C COOLED STAND ALONE CABINET
 IP 56 / 4U SLOTS



CERTIFICATES



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