

INDUSTRIAL HIGH VOLTAGE

Enhance reliability, integrate renewables, and manage costs
with high voltage storage.



14K3 G2

INDUSTRIAL ENERGY STORAGE

APPLICABLE TO A-KOOL OR RACK TYPE CABINET

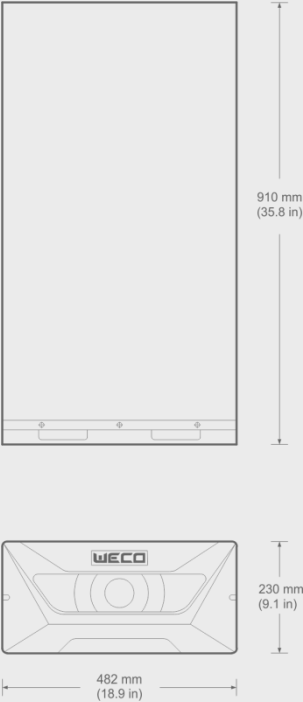


14K3 G2

SINGLE MODULE

Specifications

BATTERY	Battery System Maximum Capacity	14.34 kWh
	Battery System Capacity	14.3 kWh
	Single Module Nominal Voltage	51.2 Vdc
	Depth of Discharge	Up to 98%
SYSTEM	Modules Expandability	Max. 17 in series connection
	Ingress Protection	IP30 (or WeCo Cabinet A-Kool)
	Cluster Net Capacity (min. / max.)	71.5 kWh / 243.1 kWh
	Module Voltage Range	46.5 ~ 57.6 Vdc
	System Capacity	280 Ah
COMMUNICATION	Communication Interface	RS485, CAN, RS232, Wi-Fi & Bluetooth (with External Device)
BASIC PARAMETERS	Dimensions (W x D x H) (mm)	482 x 910 x 230
	Weight	98 kg
	Max. Charge / Discharge Current Peak	Up to 1C max.
	Standard Charge / Discharge Current	0.5C
	BMS Working Temperature	-20 ~ +60 °C
	BMS Charge/Discharge Temperature	-5 ~ +55 °C / -20 °C +55 °C
	Recommended Operative Temperature	+10 °C +35°C
	Humidity	5 % ~ 95 % RH
	Altitude	< 3000 m
	Expected Cycle Life @ STC	> 8000 (25 °C 80% DoD)
	Standards	CB / IEC62368-1 / IEC62619 / CE / UN38.3
	Features	HV BOX must be used in the system, Three Protection Levels, Real-Time Balancing, Adaptive Charge/ Discharge CAN Logic, 3-Steps Adaptive Charging Logic



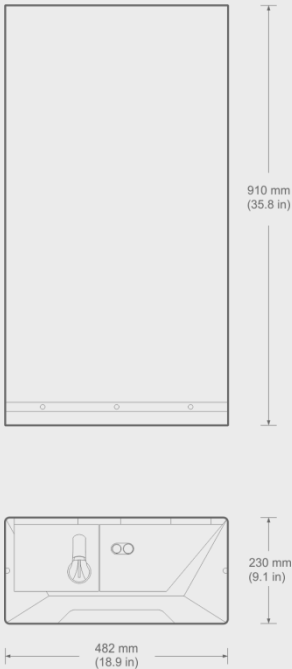
The above-mentioned temperatures are limited to the BMS ranges, such values may not be covered by the performance warranty. We recommend contacting WeCo for the most up-to-date datasheet, warranty and manual before making any purchasing decisions. No part of this document can be copied or reproduced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

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HV BOX CONTROLLER

Specifications

HV BOX	System Maximum Voltage	1000 Vdc
	Operative Voltage	250 ~ 1000 Vdc
	Standard Current	0.5C / 140 A
	Max. Current	1C / 280 A
SYSTEM	Min. / Max. Battery Modules Connectable	Min. 5 ~ Max. 17
	Ingress Protection	IP30 (WeCo Cabinet Application Only)
	Cluster Net Capacity (min/max)	71.5 kWh / 243.1 kWh
	Control Type	EMS + cascade BMS
	Protections	Main Contactor / Manual Breaker / Fuse
COMMUNICATION	Communication Interface	RS485, CAN, RS232, Wi-Fi & Bluetooth (with external device)
BASIC PARAMETERS	Dimensions (W x D x H) (mm)	482 × 910 × 230
	Weight	24 kg
	Precharge Circuit	Yes - Programmable
	AUX / IN	DI/DO programmable + HV Combiner
	BMS Working Temperature	-20 ~ +60 °C
	BMS Charge/Discharge Temperature	-5 ~ +55 °C / -20 °C +55 °C
	Recommended Operative Temperature	+10 °C +35 °C
	Humidity	5 % ~ 95 % RH
	Altitude	< 3000 m
	Standards	CB / IEC62368-1 / LVD / CE / IEC 61400 /RoHS
	Features	HV BOX must be used in the system, Three Protection Levels, Real-Time Balancing, Adaptive Charge/Discharge CAN Logic, 3-Steps Adaptive Charging Logic



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Stability.
Scalability.
Reliability.

Configure your industrial energy storage rack system with modular design, advanced control interfaces, and scalable capacity for adaptable, efficient, and resilient power management.

CABINET / RACK CAPACITY kWh	MODULES IN SERIES	MIN. VOLTAGE	MAX. VOLTAGE
171.6	12	576	691.2
185.9	13	624	748.8
200.2	14	672	806.4
214.5	15	720	864
228.8	16	768	921.6
243.1	17	816	979.2

