

DATASHEET: ZCS HIGH VOLTAGE BATTERIES

ZCS WECO 5K3 XP

Technical data

Model	ZCS – Weco 5K3 XP
Code	ZZT-BAT-6KWH-WXP
Technology	Lithium Iron Phosphate
Dimensions (H*W*D)	170mm (+10 mm rubber pad)*475mm*585mm
Weight	57.3 Kg
Protection Class	IP20
Mounting	Stackable on ground
Cable kit for connection	Included
BMS	Integrated (mandatory external HV BOX XP for high voltage protection – ZZT-HV-BOX-XP)
Operating temperature while charging *	-2°C - +54°C
Operating temperature while discharging *	-20°C - +65°C
Allowable relative humidity range	0....95% non condensing
Maximum operative altitude	2000m
Operating cycles under standard conditions **	7000
Maximum number of batteries that can be installed	In series: minimum 4 modules maximum 11 modules
Certifications	IEC 61600-6-3: 2017, IEC 61600-3-2:2014, IEC 61600-6-2007, IEC61000-3-3:2013, CE, UN38.3 (updated list on www.zcsazzurro.com)
Warranty	10 years
Communication	RS232, RS485, CAN bus, Wifi & Bluetooth (with external device)

Capacity data

Nominal capacity of single module	5.8 kWh
Useful capacity of single module (depth of discharge 90%)	5.3 kWh
Total useful capacity (depth of discharge 90%)	From 21.2 kWh (with 4 modules in series) Up to 58.3 kWh (with 11 modules in series)
Nominal voltage	From 208V (with 4 modules in series) Up to 572V (with 11 modules in series)
Maximum charge current ***	100A
Maximum discharge current ***	100A
Maximum depth of discharge	90%

* To guarantee maximum performance, installation in a controlled temperature environment between 15°C and 40°C is recommended (below 15°C the batteries protect themselves by limiting the charging current and below 0°C batteries stop charging to let the heating of the modules)

** Standard operative conditions for batteries: environment temperature 25°C , humidity 40%, depth of discharge 80%

*** The actual charging and discharging currents of the system may be limited by the operating conditions of the battery and by inverters to which the batteries are connected. Please refer to the inverter datasheets for the actual charging and discharging current

