



DATASHEET: ZCS LOW VOLTAGE BATTERIES

ZCS AZZURRO LV ZSX5120

Technical data

Model	ZCS – AZZURRO LV ZSX5120
Code	ZZT-BAT-5KWH-ZSX5120
Technology	Lithium Iron Phosphate
Dimensions (H*L*W)	440mm*600mm*140mm
Weight	44 Kg
Protection class	IP20
Mounting	On ground or wall installation (bracket included)
Cable kit for connection	ZST-CABLE-KIT (not included)
Range of charging operating temperature*	0°C - +50°C
Range of discharging operating temperature *	-10°C - +50°C
Range of operating humidity	0....95% non-condensing
Maximum operative altitude	2000m
Operating cycles under standard conditions **	>6000
Maximum number of batteries that can be installed in parallel	5 in parallel
Certifications	IEC62619, IEC62040-1, CE, UN 38.3
Warranty	10 years
Communications	RS232, RS485, CAN bus

Capacity data

Single module nominal capacity	5.12 kWh
Single module useful capacity (Depth of Discharge 90%)	4.61 kWh
Nominal voltage	51.2 V
Maximum charging current***	50A
Maximum discharging current***	50A
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)

**Standard operating conditions for batteries: ambient temperature 25°C, relative humidity 40%, depth of discharge 80%

***Actual charging and discharging currents may be limited by the operating conditions of the battery, as well as the inverters to which the batteries are connected. Please refer to the inverter data sheet for the actual charging and discharging current.

