

## Technical Parameters

### ZCS AZZURRO HV ZBT 5K

#### Technical data

Model	ZCS – AZZURRO HV ZBT 5K
Code	ZZT-BAT-ZBT5K
ZCS Azzurro	Lithium Iron Phosphate
Dimensions (H x L x D)	708mm x 420mm x 170mm
Weight	50 Kg
Protection Class	IP65
Mounting	On ground, stackable
Connection cable kit	Battery included
BMS	Integrated (external BBD necessary to protect against high voltage - ZZT-ZBT5K-BDU)
Operating temperature range when charging*	0°C - +50°C
Operating temperature range when discharging*	-10°C - +50°C
Allowable relative humidity range	0....95% non-condensing
Maximum operating altitude	2000m
Operating cycles under standard conditions**	>6000
Maximum number of batteries that can be installed in parallel	4
Certifications	IEC62619, IEC62040-1, CE, UN 38.3
Warranty	10 years
Communication	RS232, RS485, CAN bus
<b>Capacity data</b>	
Nominal capacity of single module	5.12 kWh
Useful capacity of single module (depth of discharge 90%)	4.61 kWh
Total effective capacity (90% depth of discharge)	From 4.61 kWh (with 1 module) Up to 18.44 (with 4 modules in parallel)
Rated voltage	400V
Maximum charge current***	From 7A (single module) up to 28 A (4 modules)
Maximum discharge current***	From 7A (single module) up to 28 A (4 modules)
Maximum depth of discharge	90%

\* to ensure optimal performance, it is recommended to install the inverter in a temperature-controlled environment between 15°C and 40°C (in temperatures below 15°C, the batteries will automatically protect themselves by limiting the charge current)

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

\*\*\*The actual charge and discharge currents may be limited by the battery's operating conditions and also by