

ZCS Azzurro POWER MAGIC

ZPM-215KLA-SC1/ ZPM-258KLA-SC1



**POWER
MAGIC**



Power Magic is the new outdoor retro fit storage system designed for high-power industrial installations. The system can be adapted to meet the needs of every customer, offering power capabilities ranging from 125 kW to 750 kW and storage capacities ranging from 215 kWh to 6 MWh. It is equipped with a fire extinguishing system with integrated sensors and monitoring features, as well as liquid cooling system. Installation is simple thanks to the intuitive Plug & Play system.

- » **All-in-One design with high energy density**
- » **Plug and Play design for fast and cost-effective installation**
- » **Modular system offering extensive configuration flexibility, ranging 215 kWh to over 6 MWh**
- » **Integrated fire protection system**
- » **Liquid cooling system with anti-condensing design**
- » **Physical separation of electrical and hydraulic circuits to minimise the failure risks**
- » **Built-in energy management system (EMS) for extensive management flexibility**
- » **Constant monitoring and alarm logging for fast and effective management of the entire system**

TECHNICAL DATA	ZPM-215KLA-SC1	ZPM-258KLA-SC1
Battery Connection technical data		
Technology and battery capacity	Lithium Iron Phosphate/280Ah	
Total battery capacity (per cabinet)	215kWh (5 pack)	258kWh (6 pack)
Battery pack rated voltage	768V	921.6V
Battery voltage operating range	680V-864V	734.4V-1036.8V
AC power to battery capacity ratio	≤0.5	
AC Connection technical data		
Connection type/Rated grid voltage	Trifase 3PH/PE 400V	
Rated grid frequency	50Hz	
Rated AC power	125kW	
Maximum AC power	138kW	
Maximum AC per phase	198A	
Power factor adjustment interval (settable)	-1 ~ +1	
Protection		
Fire suppression	Triple safety level: 1.Perfluorohexanone gas with battery module-level emission 2.Perfluorohexanone gas with cabinet-level emission 3.Water jet hydrant (optional)	
Additional safety systems	Gas emission openings and automatically opening top hatch	
Anti-corrosion-level	C3	
Standard		
Certifications	IEC/EN 61000-6-2/4, IEC 62477-1, IEC 62619, UN38.3	
Grid connection standard	Connection certificates and standards available on www.zsazzurro.com	
General information		
Allowable ambient temperature range	30°C...+50°C (power limit above 45°C)	
Storage ambient temperature range	-30°C...+60°C	
Environmental protection rating	IP55 (outdoor installation)	
Allowable relative humidity range	0%.. 100% (non-condensing)	
Maximum operating altitude	<4000 m (power limit above 2000m)	
Complete Cabinet Storage Weight	<2.5t	<2.8t
Only-Battery Cabinet weight	<2.2t	<2.5t
Cooling	Integrated liquid cooling	
Dimensions-(HxWxD)-Complete Storage Cabinet	2320mm*1450mm*1350mm	
Dimensions (HxWxD)-Only Battery Cabinet	2320mm*1000mm*1350mm	
Installation	Outdoor ground installation	
Connectivity	Ethernet, local Bluetooth for configurations	
System modularity		
Battery Cabinet Extension	From 1 (215kWh) to 3 (774 kWh) additional Battery Cabinets in parallel	
Storage Cabinet Extension	From 1 (125kW) to 5 (625kW) additional Storage Cabinets in parallel (Junction Box required)	



TECHNICAL DATA**ZPM-215KLA-BC1****ZPM-258KLA-BC1****Battery Connection technical data**

Technology and battery capacity	Lithium Iron Phosphate/280Ah	
Total battery capacity (per cabinet)	215kWh (5 pack)	258kWh (6 pack)
Battery pack rated voltage	768V	921.6V
Battery voltage operating range	680V-864V	734.4V-1036.8V
AC power to battery capacity ratio	≤0.5	

Protection

Fire suppression	Triple safety level: Perfluorohexanone gas with battery module-level emission Perfluorohexanone gas with cabinet-level emission Water jet hydrant (optional)
	Gas emission openings and automatically opening top hatch

Additional safety systems	Gas emission openings and automatically opening top hatch
Anti-corrosion level	C3

Standard

Certifications	IEC 62619, UN38.3
Grid connection standard	Connection certificates and standards available on www.zsazzurro.com

General information

Allowable ambient temperature range	30°C...+50°C (power limit above 45°C)	
Storage ambient temperature range	-30°C...+60°C	
Environmental protection rating	IP55 (outdoor installation)	
Allowable relative humidity range	0%...100% (non-condensing)	
Maximum operating altitude	<4000 m (power limit above 2000 m)	
Battery Cabinet Weight	<2.2t	<2.5t
Cooling	Integrated liquid cooling	<2.5t
Dimensions (H*W*D) Battery Cabinet	2320mm*1000mm*1350mm	
Communication interface	CAN, RS485	
Installation	Outdoor ground installation	

System modularity

Battery Cabinet Extension	From 1 (215kWh) to 4 (774 kWh) Battery Cabinet in parallel for PCS
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