

# ZCS Azzurro POWER MAGIC

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



**POWER  
MAGIC**



Power Magic is the new outdoor AC-coupled system designed for high-power industrial installations. The system can be adapted to meet the needs of every customer, offering power capabilities range from 125 kW to 750 kW and storage capacities from 215 kWh to 6 MWh. It is equipped with a fire extinguishing system, 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
<b>Battery Connection technical data</b>			
Technology and battery capacity	Lithium Iron Phosphate/280Ah		
Total battery capacity (per cabinet)	215kWh (5 packs)	258kWh (6 packs)	
Battery pack rated voltage	768V	922V	
Battery voltage operating range	680V-864V	734V-1037V	
AC power to battery capacity ratio	≤0.5		
<b>AC Connection technical data</b>			
Connection type/Rated grid voltage	Three phase 3PH/PE 400V		
Rated grid frequency	50Hz		
Rated AC power	125kW		
Maximum AC power	138kVA		
Maximum AC per phase	198A		
Power factor adjustment interval (settable)	-1 ~ +1		
<b>Protection</b>			
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		
<b>Standard</b>			
Certifications	IEC/EN 61000-6-2/4, IEC 62477-1, IEC 62619, UN38.3		
Grid connection standard	Connection certificates and standards available on <a href="http://www.zsazzurro.com">www.zsazzurro.com</a>		
<b>General information</b>			
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		
<b>System modularity</b>			
Battery Cabinet Extension	From 1 (215kWh) up to 4 (1032 kWh) total Battery Cabinets in parallel		
Storage Cabinet Extension	From 1 (125kW) to 6 (750kW) total Storage Cabinets in parallel (Junction Box required)		



TECHNICAL DATA	ZPM-215KLA-BC1	ZPM-258KLA-BC1
<b>Battery Connection technical data</b>		
Technology and battery capacity	Lithium Iron Phosphate/280Ah	
Total battery capacity (per cabinet)	215kWh (5 packs)	258kWh (6 packs)
Battery pack rated voltage	768V	922V
Battery voltage operating range	680V-864V	734V-1037V
AC power to battery capacity ratio	≤0.5	
<b>Protection</b>		
Fire suppression	Triple safety level: Perfluorohexanone gas with battery module-level emission Perfluorohexanone gas with cabinet-level emission Water jet hydrant (optional)	
Additional safety systems	Gas emission openings and automatically opening top hatch	
Anti-corrosion level	C3	
<b>Standard</b>		
Certifications	IEC 62619, UN38.3	
Grid connection standard	Connection certificates and standards available on <a href="http://www.zsazzurro.com">www.zsazzurro.com</a>	
<b>General information</b>		
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	
Dimensions (H*W*D) Battery Cabinet	2320mm*1000mm*1350mm	
Communication interface	CAN, RS485	
Installation	Outdoor ground installation	
<b>System modularity</b>		
Battery Cabinet Extension	From 1 (215kWh) up to 4 (1032 kWh) total Battery Cabinets in parallel for PCS	

