

Energy Storage Container

MEGA PowerX20-5016K

MEGA PowerX20-5016K uses advanced Hybrid Electrolyte Solid State LFP, battery capacity of 314Ah, not only has a long life, but also has the dual guarantee of high efficiency and safety. With its flexibility and efficiency, MEGA PowerX20-5016K is widely used in many fields such as wind power distribution, photovoltaic distribution and power grid regulation, which can effectively improve the stability and reliability of the power system.



Features

01

Extreme safety
Cutting-edge Hybrid Electrolyte Solid State LFP

03

High Efficiency
EMS+BMS+TMS+SMS 4S integration

02

Ultra-Intelligence
Big Data + Aging Mechanisms + AI + BMS Control strategy

04

High Integration
5016kWh energy in one Container with remarkable endurance

Application Scenario:
Microgrid system, Renewable energy supporting, Power construction and regulation, Industrial and Commercial power consumption optimization

PRODUCT PARAMETERS

Battery Parameter	MEGA PowerX20-5016K
Cell Type	314 Ah
Cell Chemistry	Hybrid Electrolyte Solid State LFP
Cycle Life	≥ 8000 (25°C±2°C, 0.5C / 0.5C, 90% DOD, 60% SOH)
Battery Configuration	416S12P
Operating Voltage	1164.8 ~ 1497.6 Vdc
Performance	
Maximum Energy Capacity	5.016 MWh
DC Power @Rated Duration	2h at 2.5 MW; 4h at 1.25 MW
General	
Dimension (W*D*H)	6058*2438*2896 mm
Weight	43 ± 1 t
IP	IP55
Operating Temperature Range	-20°C ~ 50°C
Heating and Cooling	Liquid Cooling
Safety	
Explosion Prevention and Mitigation	Gas detection with dedicated emergency safety systems including container and module ventilation and container deflagration
Fire Detection	Fire alarm panel, heat and smoke; detection, alarm bell and strobe
Fire Suppression	Aerosol-based suppression system; Dry pipe sprinkler system
Certifications	EN61000; IEC62619; IEC60730; EN62477-1; UN38.3 / UN3536

This datasheet is intended solely for product information and is not legally binding. The actual specifications and/or product features may differ slightly from those stated. Errors and changes are reserved. Please read the safety and installation instructions carefully and completely before using the product. Upon purchase, the currently valid warranty statements and the general terms and conditions of Megalion Europe GmbH shall apply.