

Outdoor Air-cooled PV-ESS Cabinet Specification

DZ050105B



High-efficiency lithium iron phosphate (LFP) battery
8000 cycles, ensuring enduring and stable power supply.



Intelligent air cooling system
Effectively reduces battery temperature, enhancing battery performance and lifespan.



Customizable for multiple scenarios
Optional photovoltaic (PV) DC-DC converters and rapid STS (Static Transfer Switch) for flexible adaptation to various needs.



Technical specifications

Model	DZ050105B
DC side	
Battery rated capacity	105kWh
Battery rated voltage	374.4V
Battery voltage range	351V~421.2V
Battery type	LFP
Cell capacity	280Ah
Battery life cycle	8000 cycles (0.5P, 5%~95%DOD, 70%SOH)
Standard charge/discharge rate	0.5P
Pack Configuration	1P117S
Module Cooling Method	Air-cooling
AC side	
Rated AC power	50kW
Maximum power	55kW
Maximum current	80A
Rated AC voltage	230V/400V
Voltage range	±15%
Output wiring	3P/N
Rated AC frequency	50/60Hz
Current harmonic distortion THDI	< 3% (rated power)
Power factor	≥0.99/-1~1
Overload capacity	110%
Maximum efficiency	97.8%
System Parameter	
Energy cycle efficiency	≥88%
Protection rating	IP54
Corrosion resistance rating	C3, (C4/C5 optional)
Fire protection	Aerosol
Isolation method	Non-isolation (transformer optional)
Relative humidity	0~95% (no condensation)
Ambient temperature	-30°C~55°C (≥45°C derating)
Altitude	<2000m (≥1000m derating)
BMS communication	CAN2.0b
EMS communication	4G/CAN/RS485
Dimension (W*D*H)	1310*800*1540 mm
Weight	1.6t
Annual degradation rate	<3%
Warranty	5 years