

System Topology



Merak50-107kwh-SP

Basic parameter	107 Air cooled cabinet
Model number	Merak50-107kwh-SP
Permutation type	1P120S
Cell capacity	280Ah
Magnification	0.5P
Inverter power	50kW
Rated capacity	280Ah
Rated energy	107kWh
Nominal voltage	384Vdc
Operating voltage range	300~438Vdc
Operating temperature range	-20°C~55°C
Storage temperature range	-30°C~60°C
Maximum working altitude (m)	≤3000
Battery temperature control mode	Air cooling
Energy storage system Fire protection system	Aerosol
Energy storage system communication interface	RS485/Ethernet
Protection level of energy storage system	IP54
Weight	1.7t
Dimensions (L x W x H)	1000x1450x2100mm
Standard	IEC62619 UN38.3 UL1973 GB/T36276-2018 GB/31484-2015

Product Characteristics

- Modular design, easy maintenance, easy loading and unloading, transportation level installation.
- High safety, with air ventilation, explosion-proof pressure relief device, equipped with Lion-tamer combustible gas detector, fire protection and so on.
- Long life, under 0.5C charging and discharging conditions, 6000 cycles, 80% energy remaining.
- Independently developed BMS, high sampling accuracy, advanced SOC, SOH calculation methods.
- DC1000/1500V voltage platform.
- Two-stage short-circuit protection, hierarchical fast current limiting.
- Online SOC, SOH, SOE estimation based on reality and big data;

Series Model

Merak 50-107SP	Merak 100-215SP	Merak 300-645SP
Merak 50-161SP	Merak 100-215NP	Merak 500-1075SP

Merak50-161kwh-SP

Basic parameter	161 Air cooled cabinet
Model number	Merak50-161kwh-SP
Permutation type	1P180S
Cell capacity	280Ah
Magnification	0.5P
Inverter power	50kW
Rated capacity	280Ah
Rated energy	161kWh
Nominal voltage	576Vdc
Operating voltage range	450~657Vdc
Operating temperature range	-20°C~55°C
Storage temperature range	-30°C~60°C
Maximum working altitude (m)	≤3000
Battery temperature control mode	Air cooling
Energy storage system Fire protection system	Aerosol
Energy storage system communication interface	RS485/Ethernet
Protection level of energy storage system	IP54
Weight	2.1t
Dimensions (L x W x H)	1000x1450x2100mm
Standard	IEC62619 UN38.3 UL1973 GB/T36276-2018 GB/31484-2015