NSR

Powered by VAV

ENERGY PRO

MBESS100-200
100kw-200kwh

Technical Description

Safe

- Cell status fully monitoring & multi-level fire protection
- PCS and battery IP6X protection
- Online insulation detection & Accurate positioning protection

Simple

- High power density, only take up 1.3m²
- Flexible transportion & fast installation
- Free combination & flexible expansion

Smart

- Multi-mode operation & health status detection
- Refined thermal management, temperature efficiency within system ≤3°
- Health status recognition, Improve O&M efficienc
- Intelligent local power controlling algorithm, making full use of system energy

Technical Specification

Items	MBESS 100kw-200kwh
DC parameter	
Cell type/capacity	LiFePO4 3.2V/280Ah
System battery configuration	1P240S
DC protection	FUSE
System energy capacity	215kWh
System battery voltage range	600-876Vdc
P rate	≤0.5P
Depth of discharge	0-95%
Battery pack IP rating	IP67
Cooling type	Liquid cooling
AC parameter	
Rated AC power	100kW
Rated AC voltage	400Vac 3P3W+PE
AC voltage range	-15%-10%(settable)
Nominal grid frequency	50Hz
Nominal grid frequency range	45-55Hz
THDi (on-grid)	<3% (at rated power)
THDu (off-grid)	<3% (liner load)
DC component	<0.5%
IP rating	IP66 (Modular PCS)
Cooling type	Intelligent air cooling
General data	
Max. efficiency	90%
Dimension (W*H*D)	1000×2340×1300mm
Weight	2300kg
IP rating	IP54
Anti-corrsion grade	C3 (C5 optional)
Relative humidity	0~100% (no-condensing)
Operating temperature range	-35°C~55°C
Altitude	3000m (>2000m derating)
Anti-explosion type	Anti-explosion valve
Fire distinguish equipment	Gas aerosol
Communication interface	Ethernet/CAN/RS485
Communication protocal	Modbus TCP
Compliance	IEC/EN 62477-1, EN IEC 61000-6-2/4, IEC 62619,EN 61000-3-12, EN IEC 61000-3-11, VDE-AR-N 4105, EN 50549-1, NC RFG

* Due to the multi-supplier for some key components, the actual weight may have a +5% deviation, please refer to the actually delivered product.