

1500V Liquid-Cooling String Power Conversion System

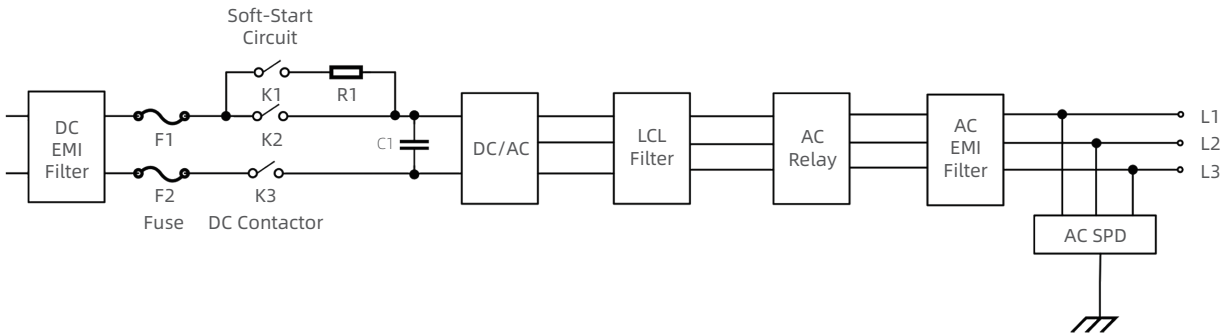
ESHV Series



FEATURES

- Highly Integrated design with battery rack high voltage box
- Three-level technology
- Liquid-cooling for lower loss
- Small size & high power density
- IP66 protection degree for harsh environment
- Supports multi-module parallel connection, enabling accurate management of battery
- PQ, VSG and other functions

TOPOLOGY DIAGRAM



PARAMETERS

Rated Power		215kW
DC Input	DC Voltage Range	1000V~1500V
	Max. DC Current	241A
AC Output	Rated Power	215kW
	Max. Output Power	236.5kW
	Reactive Power Range	0~236.5kvar
	AC Connection	3W+PE
	Isolation	Non-isolation
On-Grid	Rated Grid Voltage	690V
	Voltage Range	586V~759V
	Rated Grid Frequency	50Hz / 60Hz
	Frequency Range	47Hz~53Hz / 57Hz~63Hz
	THDi	<3% (At rated power)
	Power Factor	-1~1
	Charge-Discharge Conversion Time	<20ms
Off-Grid	Rated Output Voltage	690V
	Voltage Imbalance	<2%, No more than 4% in a short period of time
	THDu	<3% (No load or rated resistive load)
	Voltage Transient Range	<10% (Resistive load/balanced load. Load change suddenly from 20% to 100% or from 100% to 20%)
	Overvoltage Protection	Settable value
	Undervoltage Protection	Settable value
General Data	Ground System	IT
	Max. Efficiency	99%
	Operating Ambient Temperature Range	-40°C~+60°C
	Allowable Relative Humidity Range	0~95%
	Allowable Altitude Range	<4000m (Derating above 3000m)
	Noise Level	<70dB
	Anti-Corrosion Degree	C4 (C5 is optional)
	Cooling Method	Liquid-cooling
	Allowable Coolant Temperature	-40°C~+73°C (Derating above 58°C)
	Wiring Method	Quick plug terminal
	Protection Degree	IP66
	Indicator	LED indicator
	Communication Interface	Ethernet, RS485
	Communication Protocol	Modbus TCP / RTU
Dimensions (W*H*D)	745*820*180mm (Excludes hanging board) 785*820*180mm (Includes hanging board)	
Weight	≤80kg (Net weight)	