

PWS1-450M-H-L-EX

Liquid Cooling DC\AC Module



Features



Flexible Configuration

- 1500V wide-range DC voltage
- 2 DC branches input
- Liquid-cooling, 0.5P and 0.25P application



High Efficiency & Stability

- Max efficiency up to 98.5%
- Easy installation, reduction of maintenance costs
- Batteries managed in clusters, 99% system usage.



Extensive Use

- With active/reactive four-quadrant adjustment function
- Support VSG & black start & LVRT & HVRT & primary FM
- Peak shaving and local automatic operation



Safety & Compatibility

- IP65, C5
- Compatible and mutually certified with many BMS and EMS in the industry
- Fast power response (<20ms)

Specification

Model	PWS1-450M-H-L-EX
AC Parameters	
Rated AC Power	450kVA
AC connection	3P3W
Maximum AC power	495kVA(< 45°C)
AC Voltage	690(-15%~10%)V
AC frequency	50/60 (-5~5) Hz
THDi	≤2%
PF	0.99/-1~1
DC Parameters	
Maximum DC Power	495 kW
DC Voltage Range	1000V~1500Vdc
DC Voltage Range (Full-load)	1070V~1500Vdc
Branch number	2
Maximum current per branch	236A
Voltage Regulation Accuracy	≤±1%
Current Regulation Accuracy	≤±1%
System parameter	
Maximum Efficiency	98.5%
Dimensions (width × height × depth)	790*215*2000 mm
Weight	≤270kg
Noise	< 65dB
Enclosure	IP66 C3(Standard)/C5(Customized)
Operation Temperature	-25~60°C(> 50°C Derate)
Cooling Method	Liquid Cooling
Operation Humidity	0~95% (No condensation)
Operation Altitude	3000m (> 3000m Derate)
Communication	
Communication	RS 485, Ethernet, CAN
Communication Protocol	Modbus TCP/RTU, IEC104, IEC61850