

PotisBank-L5.0-AC

Utility-Scale Liquid Cooling ESS (AC-DC Integration)





ULTRA HIGH EFFICIENT AC-DC POWER CONVERSION

- · 99% conversion efficiency by built-in liquid cooling PCS
- · DC arc detection for enhanced safety
- · Up to 24 PCS units in parallel grid connection
- · Grid-forming capability for enhanced network integration



INTELLIGENT OPTIMIZATION & HIGH EFFICIENCY

- · Dual-ring redundant network for millisecond-level fault switching and gigabit data transmission
- TMS + EMS optimization cuts auxiliary energy use by 20%
- Enhonced system efficiency, boosting revenue by 8%-10%



ULTIMATE SAFETY & RELIABILITY

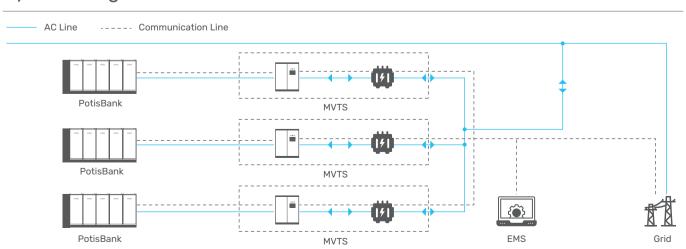
- 3-6 months in advance thermal runaway predication by patented iCCS + BMS
- 5 minutes earlier alarm with cell safety valve detection
- · 2-hour fire resistance with explosion and pressure relief protection Millisecond-level fuse response and multi-level electrical safety



COST-EFFECTIVE & STREAMLINED DEPLOYMENT

- · EMS cloud-edge collaboration for remote management
- · 10-year maintenance-free thermal system, reducing 0&M labor by 40%
- AC-DC integrated, reducing construction by 50%, installation by 40%

System Diagram





Technical Data	PotisBank-L5.0-AC
DC Side	
Cell type	LFP
System battery confguration	416S12P
Nominal capacity	5015kWh
Nominal voltage	1331.2V
Operating voltage range	1164.8~1500VDC
Nominal Charge/Discharge rate	0.5P
Round Trip Efficiency	≥93%
AC Side	
Rated output power	215kW*12
Rated grid voltage	690V
AC Output Type	3P3W
Rated grid frequency	50/60Hz
Max. THD of current	<3%
Power factor range	-1~+1
General Parameter	
Dimensions(W*D*H)	6058*2438*2896mm
Weight	≈43t
Degree of protection	IP55/Type 3R
Anti-corrosion degree	C4/C5
Operation humidity range	0%-95%, RH
Operation temperature range	-30~+55°C
Max. operating altitude	2000m
Temperature control method	Intelligent Liquid Cooling
Noise	≤75 db@1m
Safety & Communication	
Fire suppression system	Smoke and heat, Detectors, FACP, Sprinkler, Fire alarm system Flammable gas detector NFPA 69, Compliance ventilation system Aerosol fire - extinguishing system (optional)
Communication interface	Ethernet
Communication protocol	Modbus TCP, IEC61850, IEC104
Standard & Compliance	
Standard	IEC62619, IEC63056, IEC60529, IEC62477, UL9540A UL1973, UL9540, UL50E, NFPA855, NFPA69, UN38.5, UN3536

^{*}The specifications are subject to change without prior notice.

