Utility-Scale Liquid Cooling ESS

PotisBank-L5.0

PROPRIETARY PATENT ICCS

- Safety valve status monitoring system
- Voltage sampling accuracy of ±3mV
- Thermal runaway identification within 3–60s
- Valve opening pre-alarm within 3–5minutes
- Prediction range of 3–6months

WIDE TEMPERATURE RANGE

- Reliable operation across a wide ambient temperature range

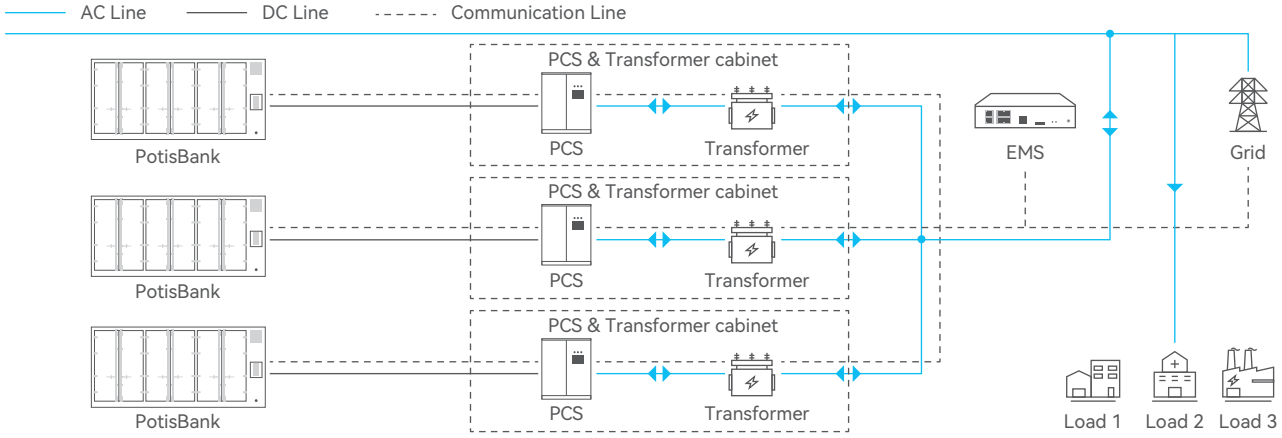
SAFE AND RELIABLE

- Advanced thermal management maintains battery temperature stability within ±3℃ (37.4℉), minimizing capacity degradation
- Fire detection and suppression system enables early warning and precise fire control

SPACE-SAVING DESIGN

- Supports flexible parallel and series connection to maximize space utilization and lower overall project costs
- Integrated, modular Design

SYSTEM DIAGRAM



PRODUCT SPECIFICATIONS

Technical Data	PotisBank-L5.0-1500
DC Side	
Cell type	LFP
Cell capacity	314Ah
System battery configuration	416S12P
Rated energy	5.0MWh
Nominal voltage	1331.2V
Operating voltage range	1164.8V ~ 1500.0V
Nominal charge/discharge rate	0.25P / 0.5P
Round trip efficiency	Max. 94%
General Data	
Dimensions (W×D×H)	6058×2438×2896mm
Weight	41.5t
System ingress protection rating	IP55 / Type 3R
Anti-corrosion degree	C4, C5 (optional)
Operation humidity range	0% ~ 95% RH
Operation temperature range	-30 ~ 55℃
Max. operating altitude	2000m
Temperature control method	Liquid Cooling
Noise	≤75dB@1m
Fire supression system	Smoke and heat detectors, FACP, Sprinklers, Fire alarm system, Flammable gas detectors, NFPA 69-compliant ventilation system, Aerosol, NFPA 68-compliant vent panel (optional), Fire sprinkler
Communication interface	Ethernet / RS485 / CAN
Communication protocol	Modbus TCP, Modbus RTU, CAN2.0, IEC 61850 MMS, IEC 60870-5-104
Standard Compliance	
Standard	FCC, HMA, IEC/UL 60730, IEC 60529, IEC 61000, IEC 62477, IEC 62619, IEC 63056, NFPA 68, NFPA 69, NFPA 855, TM-2, UL 1973, UL 50E, UL 9540, UL 9540A, UN 38.3, UN 3480, UN 3536, IEEE 693, Bankability