PotisBank-L Energy Storage System

PotisBank-L-3.7-1500

Utility Scale Container Energy Storage System

iPotisEdge

1500V high voltage system
Support 0.5P and 1P charge/discharge

High Voltage Liquid ESS

iPotisEdge liquid cooling Battery Energy Storage Systems(BESS) offer world-leading clean technology to improve power quality, energy efficiency and environmental performance. The BESS systems can be placed at various electrical systems to increase operational performance and reliability. It provides a cost-effective way to store excess energy generated by renewable sources like wind and solar farms.BESS can provide backup power during outages or extreme weather events, reducing the need for costly distribution upgrades or emergency generators.Not only do they enable smoother integration of renewable energy sources, but they also help balance electricity supply and demand.

Safe and Reliable

- Advanced LiFePO4 technology
- Pre-assembled and debugged in factory,shorter constructing time, less constructing cost
- Liquid cooling,reducing 20% system energy consumption and having longer battery cycle life

Premium Quality Assurance

- Integration with ISO 26262 & IATF 16949 certificates
- Quality assurance and control is involved at all stages to ensure that our products are of the highest quality and are safe & reliable
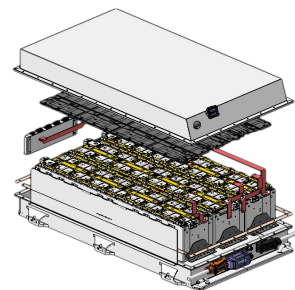

Intelligent BMS

- Integrated intelligent battery management system and optional cloud EMS
- Fast state monitoring and faults record enables pre-alarm and faults location

Comprehensive Service

- 10 years global limitted warranties
- One stop service with local suport capabilities

PotisBank-L,1500V LIQUID ESS

MODULAR, SCALABLE ENERGY STORAGE SOLUTION FOR UTILITY-SCALE APPLICATIONS

No.	Item	Parameter
1	Energy density	227.88kWh/m²
2	Cell type	LFP
3	PACK configuration	1P52S
4	Configuration(RACK)	1P416S (8PACK)
5	RACK quantity	10
6	Nominal voltage	1331.2V
7	Voltage range	1123.2V~1518.4V (individual voltage:2.7V~3.65V)
8	Charge discharge ratio	0.5P/1P*
9	Rated capacity	3727kWh
10	Short circuit current	45KA
11	Communication interface	Ethernet/RS485/CAN
12	Communication protocol	Modbus TCP / Modbus RTU / CAN 2.0
13	Auxiliary power supply	AC480V/60Hz,3P5W
14	Design standards	GB/T 36276-2018, UL1973, UL9540, UL9540A, UN38.3, IEC62619, NFPA69, NFPA70, NFPA855,NFPA68
15	Auxiliary backup power	Online(30min, adjustable)
16	Working environment temperature	-20℃ to 55℃(-4°to 131°F)
17	Altitude	< 2000m (2000m~4000m,rediced power operation)
18	Thermal management	Liquid cooling+ air conditioning
19	Size(L*W*H)	6058*2700*3100mm
20	Weight	37ton
21	Ingress Protection	IP55
22	Color	RAL9010
23	Seismic	Zone 4
24	Noise	≤75 dB @1m(3.28ft)
25	Fire fighting	fm200 extinguishing system
26	Emergency stop on spot	Yes
27	Emergency stop remotely	Yes
28	Fire detection	PACK+Container
29	Thermal diffusion technology	Yes
30	Whole container delivery (internal battery)	Yes
31	Battery Ingress Protection	IP65
32	Full power running range	SOC5%~100%@25ºC
33	Maximum cycle times per day	4 times

*1P charger and discharge, less than half an hour

The specifications are subject to change without prior notice.