

iHouse-D Series

0.5P/0.25P 5MWh Liquid Cooling Battery Container



Wide Working Range

- DC voltage range of 1,081.6 V to 1,497.6 V
- Operating temperature range of -20°C to 50°C
- Max altitude of 4,000 m

Smart & Efficient

- Efficient thermal management technology
- AC/DC parallel PCS grouping
- AC side adopts dry-type transformer configuration
- Max efficiency of the converter exceeds 99%

Ultimate Safety

- 4S-level fire management
- Pack-level precise protection
- Real-time monitoring of cell-level health status
- ms-level sampling & extremely fast response

Product Model	iHouse-D 5000
DC Parameters	
Cell Type	LFP 3.2 VDC / 314 Ah
Capacity	5.016MWh
Rate	0.5P/0.25P
Voltage Nominal	1331.2 VDC
Voltage Range	1081.6 to 1497.6 VDC
Configuration	12P 416S
Round Trip Efficiency	≥ 92 % measured on DC bus at rated discharge and charge
Short Circuit Current	12 kVA per Cluster
BMS	Real-time monitoring and independent judgment of the operating status
Thermal Management	Smart liquid cooling and heating, 60 kW
Fire Detection	Fire alarm panel, heat and smoke detection, alarm bell and strobe
Fire Suppression	Aerosol based suppression system. Flooded fire protection systems
System Parameters	
Dimensions	20 ft container: 6058 (L) x 2438 (W) x 2896 (H) mm
Weight	≤ 44 t
Operating Temperature	-20 to 50°C (< 0 and > 45 °C derating)
Storage Temperature	-20 to 55°C (15 to 35 °C recommended with 3 monthly recharge)
Operating Humidity	0 to 100 %RH
Noise	≤ 85 dB at 1 m
Ingress Protection	IP55
Anti-corrosion Grade	C3, C4 or C5
Maximum Altitude	4000 m (derating > 2000 m)
Communication	Modbus TCP, IEC 104, IEC 61850
Certificates	IEC: 60730, 61000-6-2, 61000-6-4, 62040-1, 62477-1, 62619, 62933-5-2, 63056 UL: 1642, 9540A UN: 38.3, 3536 class 9



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