

DH800Y

DH800Y is a new-generation fully liquid-cooled, modular energy storage system featuring a 690V medium-voltage grid connection solution. Each cabinet has a capacity of up to 836 kWh and achieves system efficiency of 90%. Fully liquid-cooled design enables high adaptability to harsh environmental conditions. This system offering an ultra-high AC output power of 4.2 MW and a substantial DC storage capacity of 16 MWh to support a wide range of applications across commercial & industrial use, grid-side storage, and renewable energy integration.



Modular & Flexible

- 6-unit parallel system fits in a 20ft container (All-in-one 5MWh solution) footprint
- Modular design, expansion on demand, pre-commissioned AC/DC integrated delivery



Safety & Reliability

- 3+2 safety protection, PACK/cluster/water fire suppression + explosion-proof venting design, 2-hour flame-retardant enclosure
- Smart dehumidification, reduces dew point to prevent condensation
- Full liquid cooling, 15-year service life



Standardized Delivery & O&M

- Standard container transport, transferred by forklift/crane
- Plug-and-play modular installation – 30% faster project deployment



IRR Boost up to 12%

- High energy density, 35% reduction in land costs
- Modular design, 35% lower transportation costs
- AI-driven O&M, 20% lower maintenance costs

SPECIFICATION

Model	DH800Y-2H	DH800Y-2H-C5	DH800Y-4H	DH800Y-4H-C5
Battery				
Battery Type	LiFePO ₄			
Battery Capacity	314Ah			
PACK Configuration	1P416S*2			
Rated Current	157A*2		78.5A*2	
Max. Current	180A*2		180A	
Voltage Range	1206.4~1497.6Vdc			
Nominal Capacity	836kWh			
On-grid AC Side				
Rated Power	420kW		210kW	
AC Rated Current	352A		176A	
AC Maximum Current	396A		198A	
AC Rated Voltage	690Vac			
Wiring Method	3P3W+PE			
Frequency	50Hz/60Hz			
Power Factor	1(Leading)~1(Lagging)			
THDi	≤3% (Rated power)			
Max. Number Of Parallel Expansions	10		20	
System				
Weight	Battery cabinet: Approx.6800kg (TBD) Electrical cabinet: Approx.1700kg (TBD)		Battery cabinet: Approx.6800kg (TBD) Electrical cabinet: Approx.1600kg (TBD)	
Dimension (W/D/H)	Battery cabinet: 1000/2438/2350mm Electrical cabinet: 1000/2438/965mm			
Max. Efficiency	90%			
Operating Temperature	-30~50°C (Derating above 45°C)			
Operating Humidity	0~95%RH (Non-condensing)			
Ingress Protection	IP55			
Anti-corrosion Grade	C3	C5	C3	C5
Cooling Method	Fully liquid-cooling			
Noise	≤75dB			
Elevation	3000m (Derating above 2000m)			
Display	APP			
Fire Protection	Aerosol, Water fire system, Multi-sensor detector, Water ingress detector, Audible&Visual alarm, Explosion-proof ventilation, Explosion relief			
Communication	Ethernet/4G/RS485/Bluetooth			
Standard	CQC, CE, UL9540A, UN38.3			

