

# 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, enabling full-capacity operation at ambient temperatures up to 50°C without derating. 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.



## 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-4H	
Battery				
Battery Type		LiFePO <sub>4</sub>		
Battery Capacity		314Ah		
PACK Configuration		1P416S*2		
Rated Current		157A		
Max. Current		180A		
Voltage Range		1164.8~1497.6Vdc		
Nominal Capacity		836kWh		
On-grid AC Side				
Rated Power		420kW	210kW	
AC Maximum Current		360A	180A	
AC Rated Voltage		690Vac	690Vac	
Wiring Method		3P3W+PE	3P3W+PE	
Frequency		50Hz/60Hz	50Hz/60Hz	
Power Factor		1(Leading)~1(Lagging)	1(Leading)~1(Lagging)	
THDi		≤3% (Rated power)	≤3% (Rated power)	
Max. Number Of Parallel Expansions		10	20	
System				
Weight		Battery cabinet: 5200±100kg (TBD) Electrical cabinet: 500±50kg (TBD)	Battery cabinet: 5100±100kg (TBD) Electrical cabinet: 410±50kg (TBD)	
Dimension (W/D/H)		Battery cabinet: 1000/2438/2350mm Electrical cabinet: 1000/2438/965mm		
Max. Efficiency		90%		
Operating Temperature		-30~50°C		
Operating Humidity		0~95%RH (Non-condensing)		
Ingress Protection		IP55		
Anti-corrosion Grade		C4(Optional C5)		
Cooling Method		Fully liquid-cooling		
Noise		≤75dB		
Elevation		3000m (Derating above 2000m)		
Display		APP		
Fire Protection		Aerosol, Water fire system, Multi-sensor/Water ingress, Audible&Visual alarm, Explosion-proof ventilation, Explosion Relief (Optional)		
Communication		Ethernet/4G/RS485		
Standard		CQC, CE, UL9540A, UN38.3		

