

# 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 Pro	DH800Y-4H	DH800Y-4H Pro
Battery					
Battery Type	LiFePO <sub>4</sub>				
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				

