

DH200Y

Smart Liquid-cooling ESS Cabinet

Dyness' new high safety and high energy density 1000Vdc liquid cooling ESS, compact structural design and small footprint, single cabinet capacity of 232kWh, supports AC and DC side expansion.



Safe and Reliable

PACK cell pressure monitoring, triple-level fire suppression, active discharge, and explosion-proof design



Flexible Expansion

Supports up to 10 units in parallel, expandable to 2.3MWh; Flexibly support DC expansion



High Energy Density

Occupies an area of 1.58m², energy density up to 147kWh/m²



Smart and Efficient

Smart liquid cooling with cluster-level temperature difference under 3°C, high thermal efficiency



High-level Protection

C5 Anti-corrosion grade, PACK+PCS IP65 Ingress protection



Minimalist O&M

Pre-maintenance plan, fully modular design, support remote monitoring and O&M

Technical Parameters

Battery	
Battery Type	LFP (LiFePO4)
Battery Capacity	280Ah
PACK Configuration	1P52S
PACK Quantity	5 PACK/Cluster
Rated Current	140A
Max. Current	160A
Voltage Range	754 - 936Vdc
Nominal Capacity	232kWh
AC (On Grid)	
Rated Power	100kW
AC Maximum Current	145A
AC Rated Voltage	400Vac
Wiring Method	3P4L+PE
Frequency	50Hz
Power Factor	1(Leading)~1(Lagging)
THDi	≤3% (Rated power)
Max. Number Of Parallel Expansions	12
System	
Weight	2600±100kg
Dimension (W*D*H)	1055*1645*2398mm
Max. Efficiency	≥90% (TBD)
Liquid-cooling Power	2.5kW (Cooling), 2kW (Heating)
Temperature	-20~50 C (Derating above 45 C)
Humidity	0~95%RH (Non-condensing)
Ingress Protection	IP55
Anti-corrosion Grade	C3/C5
Cooling Method	PACK Liquid-cooling + PCS Air-cooling
Noise	≤75dB
Elevation	3000m (Derating above 2000m)
Display	Touch screen
Fire Protection	Aerosol/Perfluorohexanone
Communication	Ethernet/4G/RS485
Certification	CQC, CE, TUV