

SOLVA DC418

Integrated
DC BusbarsIntegrated
Liquid CoolingModular Pack
ArchitectureBuilt-in
Fire Suppression

DC-SIDE PARAMETERS

Cell Capacity [Ah]	314
Battery Chemistry	Lithium Iron Phosphate (LiFePO4)
Total Energy Capacity [kWh]	418
System Depth of Discharge [%]	90
Cycle Life	≥8000 cycles
Nominal Voltage [V]	1331.2
Max/Min. Operating Voltage [V]	1497.6/1164.8
Max. Charge/Discharge Rate	0.5P
Cell Configuration	1P52S per module, 8 modules per pack
Battery Pack Thermal Management System	Liquid Heating and Cooling

CONNECTION METHOD

External Hybrid Inverter Connection	Integrated DC Busbars - rated for 210kW
DC Cabinet Parallel Connection	A maximum of 12 cabinets can be connected in parallel (additional control and point of connection cabinet required). External inverters connected in AC parallel.
External Inverter Communication Interface	CAN Bus
DC Cable Entry	Bottom Entry

LIQUID THERMAL MANAGEMENT

Power Supply	1/PE AC 220V 50/60Hz
Max. Cooling Capacity [kW]	8
Max. Heating Capacity [kW]	2

SYSTEM PARAMETERS

Dimensions (H×W×D) ±5 [mm]	2400x1350x1350
Weight [Tons]	3.7
Ingress Protection	IP55
Corrosion Protection Class	C4 (C5 optional)
Inverter Thermal Management System	Intelligent Air Cooling
Monitoring and Control	Built-in Cabinet Monitoring System (CMS) interfaces with site EMS for coordinated control, monitoring, and logging of BMS, and thermal systems. Includes local data storage and cloud synchronisation for remote access.
Communication Interface	RS485 (EMS), CAN (BMS), LAN (Network)
Protection	DC Breaker
Fire Suppression System	Aerosol and fire hose adaptor for full water flooding

ENVIRONMENTAL PARAMETERS

Operating Temperature [°C]	Charging: 0 to 55; Discharging: -20 to 55
Operating Humidity [%]	≤95
Max. Operating Altitude	Full load ≤2000m; >2000m, derate 1%/100m; max 4000m

GENERAL DATA

Standards & Certifications	UN38.3 (optional version with: IEC62619, IEC63056)
Standard Warranty	5 years (Warranty extension available)

Note: Images shown are representative only; actual appearance may vary by configuration.

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