

SOLVA RT261¹Integrated
RectifierIntegrated
Liquid CoolingModular Pack
ArchitectureBuilt-in
Fire Suppression

DC-SIDE PARAMETERS

Cell Capacity [Ah]	314
Battery Chemistry	Lithium Iron Phosphate (LiFePO4)
Total Energy Capacity [kWh]	261
System Depth of Discharge [%]	90
Cycle Life	≥8000 cycles
Nominal Voltage [V]	832
Max/Min. Operating Voltage [V]	936/728
Max. Charge/Discharge Rate	0.5P
DC Short Circuit Current [kA]	8
Cell Configuration	1P52S per module, 5 modules per pack
Battery Pack Thermal Management System	Liquid Heating and Cooling

DC CONNECTION PARAMETERS

External Hybrid Inverter Connection	Integrated DC Busbars - rated for 125kW
DC Cabinet Parallel Connection	A maximum of 12 cabinets in DC parallel (additional controller required). External inverters connected in AC parallel.
External Inverter Communication Interface	CAN Bus
DC Cable Entry	Bottom Entry

AC CONNECTION PARAMETERS

Integrated Rectifier rated power [kW]	125
System Input AC Voltage [V]	400
Rated Frequency [Hz]	50/60
AC Short Circuit Current [A]	450
AC Connection Method	(3P+N+PE) Three-Phase, Four-Wire System
Total Current Harmonic Distortion (THD-I) [%]	<2 (at Rated Power)
Isolation Type	Transformerless
Cable Entry	Bottom Entry

LIQUID THERMAL MANAGEMENT

Max. Auxiliary Power [kW]/Current [A]	2.8/13.4
Max. Cooling Capacity [kW]	5
Max. Heating Capacity [kW]	2

SYSTEM PARAMETERS

Max. Round Trip Efficiency [%]	89
Dimensions (H×W×D) ±5 [mm]	2400x1050x1350
Weight [Tons]	2.5
Ingress Protection	IP55
Corrosion Protection Class	C4 (C5 optional)
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	AC overcurrent protection, AC overvoltage protection, AC short-circuit protection, anti-islanding protection, reverse polarity protection (DC side)
Fire Suppression System	Aerosol and fire hose adaptor for full water flooding

ENVIRONMENTAL PARAMETERS

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

GENERAL DATA

Standards & Certifications	UN38.3, NRS097-2-1, AS/NZS4777.2 (optional version with: IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/4)
Standard Warranty	5 years (Warranty extension available)

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

Notes to Specification Sheet

1. 3 Model variants available - SOLVA AC261, SOLVA DC261, SOLVA RT261 - Refer to applicable specification sheet.

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