

Battery Energy Storage Solution (BESS)

INV BESS 66.5 kWh



Battery Management System (BMS):

- Cell-level voltage, current & temperature monitoring.
- State of Health (SOH) estimation & reporting.
- Safety logic for over-current, over-temp & fault shutdown.

Enclosure & Protection:

- IP55 rated for outdoor protection.
- Cooling fans on each module for thermal management.

Control & Communication:

- Supports Modbus TCP/IP, RS485, CAN communication protocols.

Safety & Protection:

- Over-temperature, overcharge, overdischarge & short-circuit protection.

Installation Type:

- Indoor Installation.

General Specification	INV BESS 66.5 kWh
Product Type	Rechargeable Li-ion Battery
Model Number	INV BESS 665.6 V/100 Ah
Rated Voltage (V)	665.6 V
Rated Capacity (Ah)	100 Ah
Rated Energy (kWh)	66.56 kWh
Charge-Discharge Rate (C)	0.5 C
Depth of Discharge (%)	80%
Operating Temperature (°C)	-20 to 60 °C
Warranty	5 Years (0.5C Charge/ Discharge, @80% DoD, @25 °C)
Cooling method	Forced Air Cooling (Fans on each pack)
Electrical Characteristics	
Max. Charge Voltage (V)	759.2 V
Min. Discharge Voltage (V)	520 V
Max Continuous Charge Current (A)	50 A
Max. Continuous Discharge (A)	50 A
Operating Voltage Range (V)	520 V - 759.2 V ± 0.5
Charge Temp (°C)	0 to 50 °C (<85 % RH)
Discharge Temp (°C)	-20 to 60 °C (<85 % RH)
Protection Feature	
Over Temp Protection	Yes
Overcharge Protection	Yes
Overdischarge Protection	Yes
Short Circuit Protection	Yes
Cell Specification	
Cell Type	LFP Prismatic
Cell Model	3.2 V 100 Ah
Nominal Voltage (V)	3.2 V
Rated Capacity (Ah)	100 Ah
Voltage at End of Charge (V)	3.65 V
Voltage at End of Discharge (V)	2.5 V
Max Charge Rate (C)	0.5C
Max Discharge Rate (C)	0.5C
Cell Weight (kg)	2.3 kg
Pack Specification	
Pack configuration	16S1P
Pack Nominal Voltage (V)	51.2V
Pack Capacity (Ah)	100 Ah
Pack Energy (kWh)	5.12 kWh
Rack Specification	
Total Packs	13 Packs
Rack Nominal Voltage (V)	665.6 V
Rack Capacity (Ah)	100 Ah
Rack Energy (kWh)	66.56 kWh
Cabinet Specification	
No of Racks	1
Features	
Battery Management System (BMS)	Cell-Level Monitoring: Manages voltage, current and temperature for every cell/module. State of Health (SOH): Estimates and reports the degradation status. Safety Logic: Executes emergency shutdown on over-current, over- temperature or fault detection.
Enclosure & Protection	IP Rating: IP55 (for outdoor environmental protection). Integrated Thermal Management: Ensure cells operate within the optimal temperature.
Safety & Protection	Over Temperature, Overcharge, Overdischarge & Short Circuit protection.
Control & Communication	Monitoring Communication: Standard Industrial protocols (eg. Modbus TCP/IP , RS485, CAN)