

C&I Series



BATTERY ENERGY STORAGE SOLUTION (BESS)-C&I



INV BESS 125kW / 261kWh

Key Features:

-  Control And Monitoring With Modbus Tcp/ip & Can Communication.
-  Central Monitoring And Control.
-  Bi-directional DC/AC & AC/DC power conversion.
-  Forced air cooling (with HVAC Assisted) / Liquid Cooling
-  IP54-Rated for Outdoor Durability
-  Enclosure – Stable performance in all conditions.

Model	INV BESS 125kW / 261kWh
Battery Cell & Module Specifications	
Cell Chemistry	Lithium Iron Phosphate (LFP)
Cell Type	Prismatic
Cell Specification	3.2V, 314Ah
Battery Module Configuration	1P52S
Module Nominal Voltage	166.4V
Module Capacity	314Ah
Module Energy	52.25kWh
Module Protection Level	IP67
Battery Rack & System Configuration	
Modules per Rack	5
Number of Racks	1
System Configuration	1P260P
Total Number of Cells	260
Rated Energy Capacity	261kWh
Rated Capacity	314Ah
Rated Voltage	832V
Operating Voltage Range	650V ~ 936V
Typical Charge / Discharge Duration	2 Hours
Typical Max C-Rate	0.5C
Typical DoD	90%
Usable Energy at 90% DoD	235kWh
RTE	85%
Thermal Management & Auxiliary	
Cooling Method	Liquid Cooling
Coolant Type	50% Ethylene Glycol + 50% Water
Thermal Management	Active Liquid Cooling
Auxiliary Power Consumption (Max)	4KW
Protection, Safety & Communication	
Battery Management System	Pack BMU + Rack RBMS
Protection Features	OV / UV / OC / OT Protection
Fire Detection	Heat and Smoke Sensors
Fire Suppression	Automatic Aerosol-based System
Communication Protocols	Modbus TCP/IP
Container & Environmental Specifications	
Total System Weight	Max 2700 Kgs
Cabinet Protection Level	IP54
Operating Ambient Temperature	-10°C to +55°C
Maximum Altitude	≤ 3000 m with derating above 2000 m