WAAREE | ESS

ALL-IN-ONE

WOLT - C&I

125kW/261kWh

Commercial and Industrial Energy Storage System



APPLICATION

Supports direct connection to PV, grid, backup load, and generator, supplying stable power in both on-grid and off-grid modes.

SAFETY

Compartmentalized design with a preventive alarm system.

ECONOMIC

Zero power loss through efficient temperature control and frequency variation.

INTELLIGENT

Offers multiple operation modes, including Peak Shaving, Load Shedding, PV-Storage Energy Control, and Frequency Regulation. Operating data can be transmitted to ESS Cloud via Wi-Fi, 4G or 5G.

AUGMENTABLE

Preconfigured during manufacturing, plug and play onsite. Capable of parallel connection upgrades for flexible system size application.



The WOLT - C&I Series accommodates "All-in-one" design philosophy, integrating battery with longevity, intelligent BMS, high performance PCS, preventive safety system, smart distribution system and heat dissipation management system into one standard container for standardized manufacturing(for outdoor application) and simpler installation.

*Images are for representation purposes only

WAAREE | ESS

POWERING PROGRESS

Waaree ESS (a Waaree Group Company) delivers advanced energy storage solutions that enable businesses and industries to achieve energy independence, reduce costs, and build a sustainable future.

ABOUT WAAREE ESS

Strong Heritage
Part of Waaree Group with over 35+ years of excellence in clean energy.

Innovation Driven
Continuous R&D in battery technology, BMS, and energy management systems.

Reliable & Safe
Engineered for safety, performance and long operational life.

Global Vision
Delivering sustainable energy solutions to power a cleaner, greener tomorrow.

35+ Years of Experience

24+ GW Solar Module Manufacturing Capacity

20+ Countries Global Presence

15000+ Employees Worldwide



ADVANCED MANUFACTURING. ASSURED QUALITY.

Waaree ESS systems are designed and manufactured in state-of-the-art facilities with strict quality control to ensure highest reliability, safety and performance.



State-of-the-art Facilities



Premium Battery Technology



Rigorous Testing



Built For India. Made For The World.

SUITABLE FOR A WIDE RANGE OF APPLICATIONS

Manufacturing Industries	Commercial Buildings	Solar + Storage Applications
Data Centers	Hospitals	Malls & Retail
Educational Institutions	Hotels & Hospitality	Warehouses & Logistics

WHY CHOOSE WAAREE ESS?

- Proven track record in solar and energy storage solutions
- End-to-end solution provider-Design, Supply, Installation & Support
- Advanced technology with intelligent energy management
- Strong after-sales support & pan-India service network
- Commitment to quality, safety and sustainability

END-TO-END SUPPORT

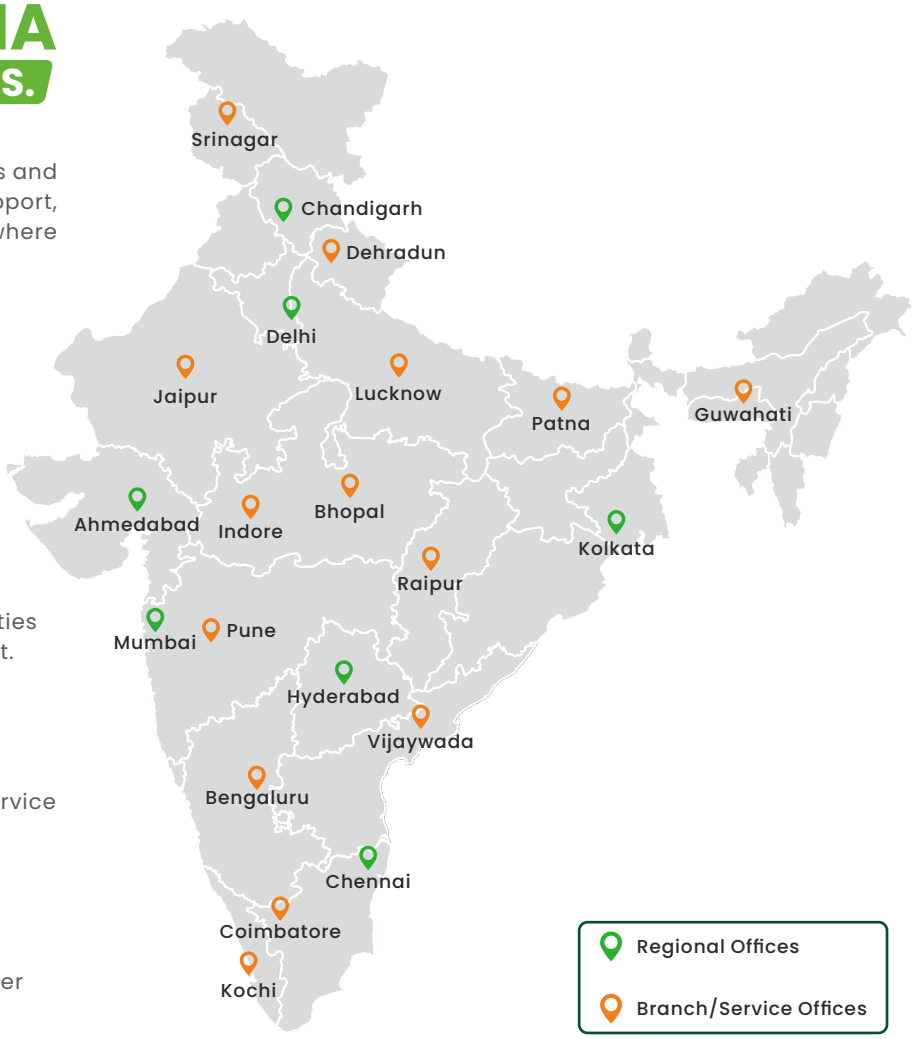
Consulting & Solution Design ------▶ Supply & Installation ------▶ Commissioning & Training ------▶ After- Sales Support

TECHNICAL DATA

Technical Data	GW125/261-ESA-LCN-G10
Battery Data	
Cell Type	LFP (LiFePO4)
Cell Capacity (Ah)	314
Module Nominal Energy (kWh)	52.25
Number of Packs	5
Rack Nominal Energy (kWh)	261.25
Nominal Voltage (V)	832
Operating Voltage Range (V)	676 ~ 936
Max. Continuous Charge / Discharge Current (A)	188
Max. Charge / Discharge Current (A)	198.5
Max. Charge / Discharge Rate	0.5P
Depth of Discharge	90% ~ 100% (90% Recommended)
AC Output Data (On-grid)	
Nominal Output Power (kW)	125
Max. Output Power (kW)	137.5@400V AC
Nominal Apparent Power (kVA)	125
Nominal Apparent Power Output to Utility Grid (kVA)	125
Nominal Apparent Power from Utility Grid (kVA)	125
Nominal Output Voltage (V)	400, 3L / N / PE
Nominal AC Grid Frequency (Hz)	50 / 60
AC Grid Frequency Range (Hz)	47.5 ~ 52.5 / 57.5 ~ 62.5
Max. AC Output Current (A)	198.5
Max. AC Current Output to Utility Grid (A)	198.5
Max. AC Current from Utility Grid (A)	198.5
Nominal Output Current (A)	180.4@400V AC
Power Factor	~1 (0.8 lag to 0.8 lead)
Max. Total Harmonic Distortion	<3%
AC Output Data (Off-grid)	
Nominal Output Power (kW)	125
Max. Output Power (kW)	137.5@400V AC
Nominal Apparent Power (kVA)	125
Nominal Output Apparent Power to Grid (kVA)	125
Nominal Input Apparent Power from Grid (kVA)	125
Nominal Output Voltage (V)	400 / 380, 3L / N / PE
Nominal Output Frequency (Hz)	50 / 60
AC Grid Frequency Range (Hz)	47.5 ~ 52.5 / 57.5 ~ 62.5
Max. AC Output Current (A)	198.5
Max. AC Current Output to Grid (A)	198.5
Max. AC Current from Grid (A)	198.5
Nominal Output Current (A)	180.4@400V AC
Power Factor	~1 (0.8 lag to 0.8 lead)
Output THDi (@Linear Load)	<3%
Efficiency	
Max. PCS Efficiency	98.6%
Max. System Efficiency	92.0%
Protection	
Battery Reverse Polarity Protection	Integrated
Anti-islanding Protection	Integrated
AC Overcurrent Protection	Integrated
AC Short Circuit Protection	Integrated
AC Surge Protection	Type II
General Data	
Operation Temperature Range (°C)	-25 ~ +55
Storage Temperature (°C)	-20 ~ +45 (One Month); 0 ~ +35 (One Year)
Relative Humidity	10% ~ 95%
Max. Operating Altitude (m)	≤4000 (2000 derating)
Cooling Method	Pack: Liquid Cooling; PCS: Smart Fan Cooling
User Interface	LED, WLAN + APP
Communication Protocol	Modbus TCP, Modbus RTU
Weight (kg)	≤2580
Dimension (W × H × D mm)	1050 × 2250 × 1400
Noise Emission (dB)	≤70
Ingress Protection Rating	IP54
Anti-Corrosion	C4
Configuration of Safety	Aerosol + water-based fire suppression, explosion-proof fan + explosion-proof plates (optional)
Charge / Discharge Switching Time	<60ms

POWERING INDIA
PRESENCE THAT DELIVERS.

With a strong nationwide network of offices and partners, Waaree ESS ensures prompt support, faster response and reliable service anywhere in India.



Pan India Presence
Serving customers across the length and breadth of India.

Regional Support
Dedicated team across major cities for seamless service and support.

Strong Partner Network
Trusted channel partners and service associates in every key region.

24x7 Support
Always available for you, wherever you are.

CORPORATE OFFICE

Waaree Energy Storage Solutions Pvt. Ltd.
Commerz 2, 11th Floor, Oberoi Garden City,
International Business Park, Yashodham,
Goregaon, Mumbai, Maharashtra 400063.

+91 22 6939 5500 | Toll Free : 1800 2121 321

waaree@waaree.com | www.waaree.com

Head Office in Mumbai

Strong Pan India Team

Local Support. National Strength

BRANCH OFFICES ACROSS INDIA

- **Delhi** (NCR)
- **Chandigarh** (UT)
- **Dehradun** (Uttarakhand)
- **Jaipur** (Rajasthan)
- **Lucknow** (Uttar Pradesh)
- **Patna** (Bihar)
- **Kolkata** (West Bengal)
- **Guwahati** (Assam)
- **Ahmedabad** (Gujarat)
- **Indore** (Madhya Pradesh)
- **Bhopal** (Madhya Pradesh)
- **Raipur** (Chhattisgarh)
- **Mumbai** (Maharashtra)
- **Pune** (Maharashtra)
- **Hyderabad** (Telangana)
- **Vijayawada** (Andhra Pradesh)
- **Bengaluru** (Karnataka)
- **Chennai** (Tamil Nadu)
- **Coimbatore** (Tamil Nadu)
- **Kochi** (Kerala)
- **Srinagar** (Jammu & Kashmir)

*Network continuously expanding to serve you better.