TYR Aurora Energy Solution LTD

Utility-Scale Battery Energy Storage Solutions

5 MWh Class Utility BESS

Utility-Scale Battery Energy Storage System

Scalable DC blocks and project-specific AC integration



PRODUCT SNAPSHOT

NOMINAL ENERGY	**5.016 MWh**
CELL CAPACITY	**314 Ah**
CHEMISTRY	**LFP**
MAX. RATE	**0.5P**
ENCLOSURE	**IP55**

5.016 MWh
NOMINAL ENERGY

0.5P
CHARGE / DISCHARGE

-30 to +55 C
OPERATING TEMP.

IP55
PROTECTION

System strengths

- **Scalable high-energy-density design**
  5.016 MWh per 20-foot container; modular MW-to-GWh deployment.
- **Multi-layer safety architecture**
  Gas detection, explosion ventilation and pack-level suppression.
- **Canadian climate operation**
  Liquid cooling and -30 C to +55 C operating temperature.
- **Flexible AC / DC integration**
  DC blocks or AC systems with PCS, transformer and EMS.

Ideal for Canadian Applications

Standalone BESS; solar + storage; wind + storage; grid capacity support; peak shaving; frequency regulation; data centres.

Solutions span approximately 5-20 MWh, with configuration selected for each project.

Contact Us
scarlett.ge@tyrauroraenergy.com
Tel / WhatsApp: +1 236-965-5051

TYR Aurora Energy Solution LTD
3602-6333 Silver Avenue
Burnaby, BC V5H 0C3

Technical Specifications

TYR Aurora Grid 5MWh | Values from supplied utility-scale brochure

BATTERY & DC BLOCK	
Battery chemistry	LFP
Cell capacity	314 Ah
Nominal energy	5.016 MWh per 20-foot container
Maximum charge / discharge	0.5P
Cooling	Liquid cooling
Configuration	DC block / AC integrated solution

ENVIRONMENTAL & COMMUNICATION	
Operating temperature	-30 C to +55 C
Enclosure protection	IP55
Communication	CAN / RS485 / Ethernet
Protocols	Modbus TCP/IP / Modbus RTU / IEC 104
Shipping references	UN 38.3 / UN 3536

INTEGRATION & SAFETY	
AC integration	Project-specific PCS, transformer and EMS
Safety architecture	Gas detection, explosion ventilation
Fire suppression	Pack-level; optional sprinkler protection
Deployment	Modular utility-scale configurations

Project Configuration

Available as a standalone DC battery block or an AC-integrated solution. Final system specifications and compliance documentation are subject to project engineering and manufacturer confirmation.

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