

TRQES

The Revolution of Energy Storage

A Canadian Company focusing on Distributed Energy Storage Technologies, Products & Solutions

BESS 500kW/1000kWh Model TC-500-1000



Peak Shaving

Reduce energy bill

Transportable Energy

Provide electricity to remote regions

Back Up Power

Provide comfortability & resiliency

Community Micro-Grid

Reduce the cost of electricity & bring smart grid

Electricity Quality Management

Adjust voltage and support power

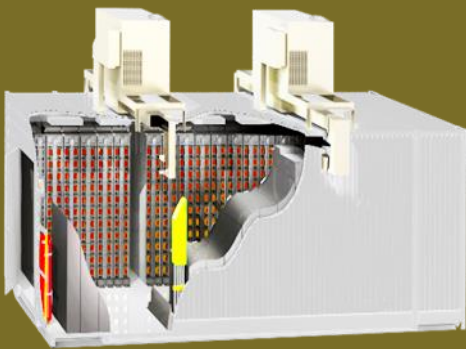
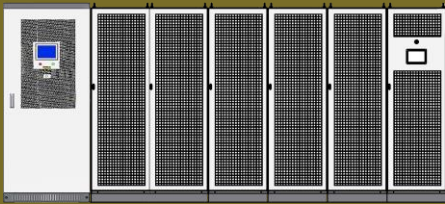
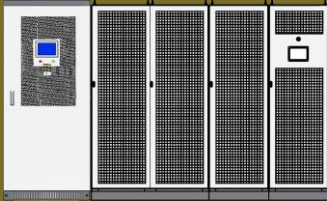
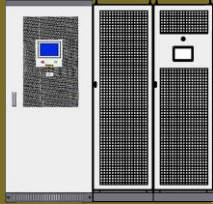
Power Capacity Expansion

Reduce utility infrastructure update cost

Renewable Integration

Solve generation intermittency and smooth output

Modular and “Customizable
Off-The-Shelf” Design



TROES BESS 500kW/1000kWh Outdoor Design

Model	TC-500-1000
Network	TCP/MODBUS/RS485
Battery Module Specifications	
Battery Technology	Lithium-ion / LFP
Capacity	10.37 kWh
C-Rate (charge / discharge)	0.5C / 0.5C
DC Output Normal	38.4 V
DC Current Rating	135 A
Battery Efficiency	98%
System Specifications	
Nominal Energy Capacity	1119.96 kWh
Usable Energy	938.4 kWh
Rated power	500 kW
Rated DC Voltage	691.2 V
DC voltage OP range	604.8 V ~ 777.6 V
Auxiliary AC Voltage	600 V, 3 Phase
Operating Temperature	-40° - 50°C
Cycle Life	7000 Cycles @ 80%DoD (0.5C/0.5C, 25°C)
Mechanical Specifications	
Enclosure	NEMA 3R
BESS Dimension (W x D x H)	6058 x 2438 x 2591mm
BESS Weight	15,000kg
Thermal Runaway Protection	Yes
HVAC	Air-Conditioning
Color	RAL 7035 Grey-White/RAL 9005 Black
Certifications	
Battery Cell	UL1642
Battery Packs	UL1973, UN38.3

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3600 Steeles Ave. East
Markham, ON L3R 9Z7
Canada

☎ 1-888-99-TROES(87637)

✉ Info@troescorp.com

🌐 www.troescorp.com