

TRQES

The Revolution of Energy Storage

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

BESS 30kW/100kWh Outdoor Design – TO-30-100



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

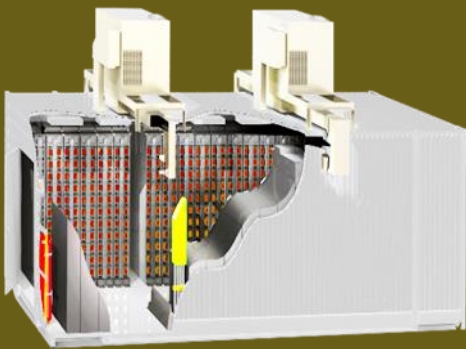
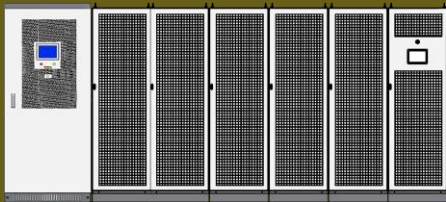
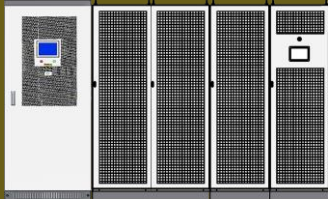
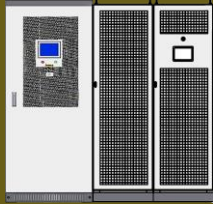
Power Capacity Expansion

Reduce utility infrastructure update cost

Renewable Integration

Solve generation intermittency and smooth output

Modular and “Customizable
Off-The-Shelf” Design



TROES BESS 30kW/100kWh Outdoor Design

Model TO-30-100

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 38.4VDC

DC Current Rating 135A

Battery Efficiency 98%

System Specifications

Nominal Energy Capacity 124.44 kWh

Usable Energy 104.26 kWh

Rated power 30 kW

Rated DC Voltage 460.8 V

DC voltage OP range 403.2 V ~ 518.4 V

Auxiliary AC Voltage 480V, 3 Phase

Operating Temperature -40° - 50°C

Cycle Life 7000 Cycles @ 80%DoD (0.5C/0.5C, 25°C)

Mechanical Specifications

Enclosure NEMA 3R (Outdoor cabinet)

BESS Dimension (W x D x H) 1500 x 900 x 2200 mm

BESS Weight 1672 kg

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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