TROES
The Revolution of Energy Storage

Product Specifications[1]

Model	TO-125-570
Electrical Specifications	
Battery Technology	Lithium-ion / LFP
C-Rate (charge/discharge)	0.5C / 0.5C
DC Current Rating	280A*2
Battery Efficiency	96.5%
Nominal Capacity	**573.4kWh**
Usable Capacity	**504.7kWh**
Rated Power	**125kW**
DC Voltage	1024V
DC Voltage Operation Range	896V - 1152V
Cycle Life[2]	4500Cycles @ 80% EoL (0.5C/0.5C, 25°C)
Auxiliary AC Voltage	480V, 3 Phase
Nominal AC Frequency	50 / 60Hz (configurable)
Mechanical Specifications	
Enclosure	NEMA 3R equivalent (Outdoor Cabinet)
Dimensions (W x D x H)[3]	1300 x 2250 x 2591 mm
PCS Dimensions (W x D x H)	600x500x2000 mm
Number of Enclosures	2
Operating Temperature	-20°C to 45°C
System Weight	8330 kg
HVAC	Yes
Thermal Runaway Protection	Yes
Enclosure Color	Customizable
Communications	
Integrated Microgrid Control Function	Optional
Network	TCP/MODBUS/RS485
Certifications	
Safety and grid interface	UL1741, UL1642, UL1973, UN38.3

[1]In the interests of continual product improvement, specifications are subject to change without notice. Please contact us for the latest specifications.

[2]The cell cycle life is the number of full charges and discharges the cell is capable of while retaining the specified capacity at the end. Actual life depends on factors such as (but not limited to):
(i) operating temperature
(ii) quality of maintenance of the system
(iii) frequency of use
(iv) time duration spent at different battery states.

[3]An additional 0.9m clearance on all sides of the battery energy storage system should be provided for maintenance access.

[4]Actual grid input requirement will depend on factors such as (but not limited to):
(i) actual equipment electrical requirements.
(ii) utilization/duty cycle.
(iii) daily duration of availability of input power supply.
(iv) state-of-health and age of the BESS.
(v) duration of daily construction site operations.

Picture shown is for illustration purposes only.
Actual product may vary due to product or design enhancement.

Features

Modular Off-the-Shelf Approach
Scalable from 70kWh-5MWh+, with selections of over 300 power output designs starting from 30kW, offering great flexibility in C&I applications

IoT & Cloud-based Operation
Remote operation and prevention system reduces troubleshooting

Dynamic Rate Support
Charge/Discharge rate from 30 minutes to 10+ hours

Patented Intellectual Property
Bidirectional AC/DC PCS with on, off, or on & off grid connected system within a flexible enclosure

Proprietary Battery Pack Design
Remote operation and prevention system reduces troubleshooting

Leading Sustainability
Offerings include a Fire Suppression System with low/zero emissions

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