



# DYNAMIS

POWER SOLUTIONS

## Dynamis DBESS

Mobile Battery Energy Storage Systems

**400kW to 4MW Power Output**

Dynamis' most innovative transportation solution, the DBESS package design utilizes \*LTO battery technology to deliver high power density, best in class battery cycle life and fast charge capabilities to customers seeking a highly flexible energy storage system for grid tied or island grid operations. This innovative package design provides greater flexibility for customers with the ability for charging to 80% \*SOC in 6 min for applications requiring minimal time in between charge/discharge cycles.

## Benefits

- 5x multiple on LTO cycle life vs NMC or LFP battery technology
- Optimized for high transient applications, such as Oil & Gas Drilling and Frac applications
- Multiple container and trailer form factors for customer specific application requirements
- Turnkey package for quick relocation and deployment in <1 hour
- Battery overload capacity to meet higher power requirements for intermittent load demands
- 5ms response time to inductive loads

\*LTO: Lithium Titanium Oxide

\*SOC: State of Charge

\*C-rate: measurement of current in which a battery is charged and discharged at

## Features

- Capable of 400kW to 4MW of power output
- High \*C-rate of battery (3C continuous, 6C intermittently)
- Multiple units capable of parallel or series
- Multiple form factors for meeting customer application requirements
- Multiple Voltage output options available
- Optional integrated transformer for medium/high voltage
- Optional dual inverter
- Safety – low risk of fire or explosion with battery characteristics capability to change from conductive to highly resistive, preventing internal combustion
- Temperature Range – usable from -30C to 70C
- Rapid Charge – charge to 80% capacity in 6 min
- Long Life – Cycle life of 20,000 times or more
- High input/output – Large current for both input and output
- Wide SOC Range – Available \*SOC range of 0% to 100%
- Transportability – no restrictions or limitations on transportation
- Park to power in less than 1 hour

# DBESS Battery Energy Storage System

The Dynamis DBESS Energy Storage System incorporates state of the art battery technology which allows customers park to power in <1 hour, based upon a proven enclosure and mobile trailer design for the harshest of conditions. Integral controls provide multiple unit paralleling, load management and generator on/off control to maximize asset life and maintain the lowest emissions profile. Optimized for mobile and transportable applications such as Oil & Gas, Mineral Mining, Island and Grid Tied Powergen, Bitcoin Mining and a multitude of other power generation applications.

Formfactor	Power Output	Battery Capacity	Frequency	AC Output Voltage	Overload Capability	Cycle Life before 80% remaining capacity	Operating Temp.
10-foot ISO	200kW to 400kW	66Wh to 133kWh	60Hz	480v to 600V	10% Overload	20,000 cycles	-30C to 70C
20-foot ISO	600kW to 1MW	200KWh to 333kWh	60Hz	480 to 600V	10% Overload	20,000 cycles	-30C to 70C
40-foot ISO Container	1.3MW to 4MW	433kWh to 1500kWh	60Hz	480V to 600V	10% Overload	20,000 cycles	-30C to 70C
59-foot Trailer Mounted Custom Container	2MW	667kWh to 769kWh	60Hz	13.8kV	10% Overload	20,000 cycles	-30C to 70C



## 3C LTO Battery Technology Highlights

### Safety

Low risk of fire or explosion

### Performance at Low Temperature

Usable even at -30°C

### Rapid Charging

Rapidly charges to about 80% of the capacity in 6 minutes

### Long Life

Cycle life of 20,000 times or more

### High Input/Output

Large current for both input and output

### Wide effective SOC\* Rang

Available SOC range of 0 to 100%

\*SOC State of Charge

