



GRIDSTAR[®] LITHIUM ENERGY STORAGE

LOCKHEED MARTIN



GRIDSTAR® LITHIUM ENERGY STORAGE SYSTEM

Turnkey energy storage for commercial, industrial, and utility applications.

- Demand Charge Reduction
- Solar and Wind Integration
- Transmission and Distribution Investment Deferral
- Power Quality Support
- Microgrid Support

Complete solution. Compact package.

- Robust, reliable energy storage systems
- Compact footprint and simple, fast installation
- Flexible - modular in 100 to 500 kW_{AC} and 100 to 1350 kWh_{AC} increments
- All-in-one unit - batteries, power conversion, AC/DC protection, thermal management, and controls
- Easily scalable to multi-MW configurations
- Warranty backed by Lockheed Martin



GridStar® Lithium Energy Storage Unit Specifications

System Description	Turnkey outdoor-rated energy storage system including AC/DC protection, power conversion, energy storage, thermal management, and controls
Storage Type	Lithium-ion
Round Trip Efficiency	87-92%
Power Interface	480 VAC 3-phase, 3 wire ¹
Control Interface	RS-485 / Modbus, Ethernet / Modbus TCP
Ambient Operating Temp	Standard: -17°C to 50°C; Low Ambient: -30°C to 50°C
Enclosure	NEMA 4X
Altitude	2,000 meters
Humidity	0 to 100% RH (non-condensing)
Seismic Rating	IBC Site Class D

ESU Model

	2.M	2.L
Power Configurations ²	100 kW to 485 kW	100 kW to 500 kW
Energy AC Configurations	100 kWh to 900 kWh	900 kWh to 1350 kWh
Footprint	6' D x 12'6" L x 8'5" H	6' D x 16' L x 8'9" H
Weight	<23,000 lbs (10,450 kg)	<32,000 lbs (14,550 kg)

Certifications

System	UL 9540
Inverter	UL 1741SA, IEEE 1547, #° V #O° # V 1-16
Batteries	UL1642, UL 1973

¹ Secondary side of connected power transformer must be grounded wye configuration.

² Gross power rating.

Note: Product specifications are subject to change without notice.

Contact Information:

storage@lmcoenergy.com, (617) 374-3797 x234
www.lockheedmartin.com/energystorage



GridStar is a registered trademark of Lockheed Martin Corporation.
©2018 Lockheed Martin Corporation
08232018