

aries GRID™

High-Voltage Battery Management System

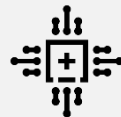


Safety, precision and efficiency you can bank on.
Minus the supply chain risk.

Aries Grid BMS is a high voltage battery management system engineered for modern utility-scale battery energy storage systems.

With a 350 A/1,500 V_{dc} rating, IP54 ingress protection, and advanced control algorithms, it ensures optimal performance, safety, and seamless integration into grid-scale applications.

Aries Grid BMS is fully IRA, USMCA, and BABA compliant, and is designed and built in the U.S. with all electronics sourced domestically.



Advanced battery intelligence.

Sophisticated state-of-charge, -power and -health estimation. Customizable fault handling and logging.



Enjoy safety during operation and maintenance.

Dual 500 A fuses for arc clearing, touch-safe high voltage connectors and IP54 ingress.



Never lose out with performance cell balancing.

Continuous balancing with 300 mA current available per channel to maximize usable capacity.

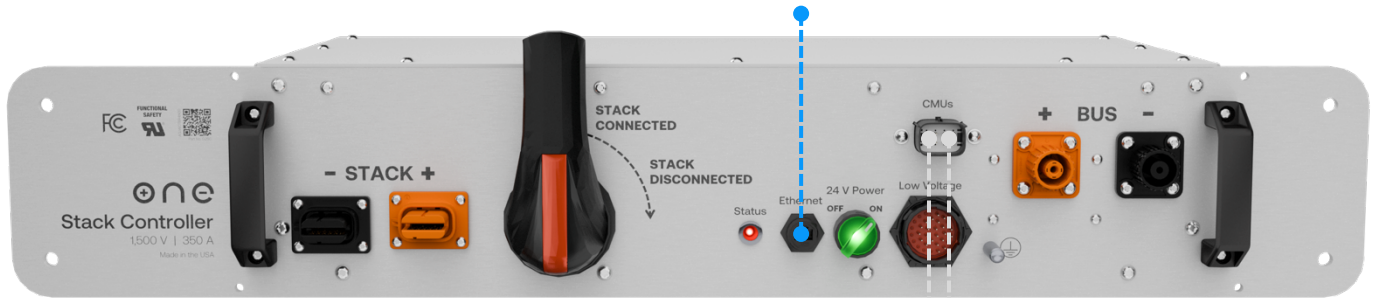


Contact sales@one.ai

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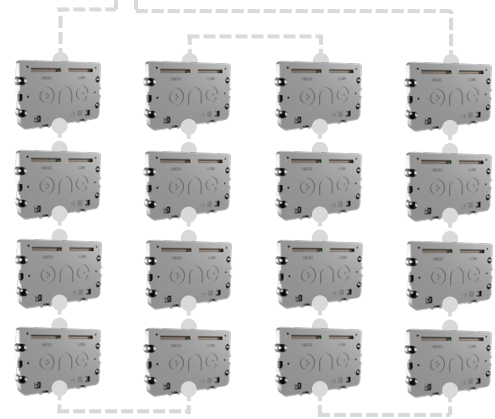


Modbus TCP/IP on ethernet to
ESS network switch

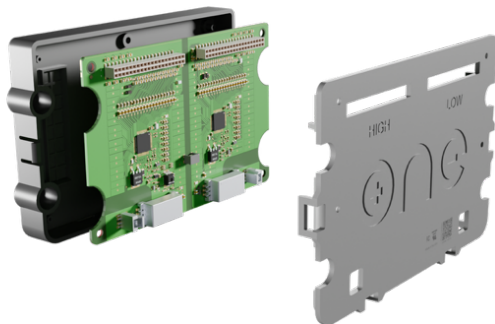


Aries Grid Stack Controller

Model ID	BMS-SC-350-H/-V (horizontal vs. vertical label orientation)
Continuous Current	350 A _{rms}
Maximum Instantaneous Current	600 A _{rms}
Max Voltage	1,500 V _{dc}
Pre-Charge	Active
Isolation Voltage	4,000 V
Power Supply	24 V _{dc}
Communication to ESS Control	Modbus TCP/IP
Key Certifications & Testing	UL/CAN 60730-1; UL/CAN 1973



Daisy-chained TPL on RS-485
to Aries Grid Module CMUs



Aries Grid Cell Monitoring Unit

Model ID	BMS-CMU-36
Number of Channels	36
Max Balancing Current	300 mA
Voltage Measurement Accuracy	±0.8 mV
Communication to Stack Controller	TPL on RS-485
Dimensions (L x W x H)	164 x 20 x 109 mm



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