

# aries GRID™



## 104.5 kWh Grid Storage Module



Safety, longevity, and leading energy density. All built in Michigan.

From cell to system, ONE is leading the US energy storage industry forward with fully domestic engineering and manufacturing.

The liquid-cooled 104.5 kWh Aries Grid Module enables 5+ MWh containerized ESS capacity and can employ ONE's 314 Ah cell or an imported equivalent to meet customers' domestic sourcing preferences.

The Aries Grid Module and BMS can be fully IRA, USMCA, and BABA compliant, benefitting from IRA's \$10/kWh module manufacturing credit.



### Ace your ITC domestic content qualification.

Module and BMS designed and manufactured in the US with both Michigan & imported cell option.



### Enjoy safety during operation and maintenance.

Dual necked busbars for arc clearing, double isolation, mid-module disconnect, and IP66 ingress.



### Maximize container-level energy density.

Every cell contributes to the module's rigidity for a narrower design than equal-capacity modules.



Contact [sales@one.ai](mailto:sales@one.ai)

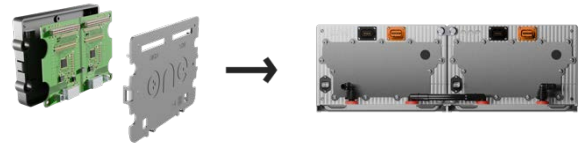
Our Next Energy (ONE)  
45145 W 12 Mile Rd, Novi, MI 48377  
[one.ai/manufacturing](https://one.ai/manufacturing)



# Specifications

Model Name	Aries Grid 104.5 kWh Module
Model ID	M-52S2P-HIC/M-52S2P-HOC
Chemistry	LFP // Graphite
Nominal Capacity	104.5 kWh
Module Max Power (kW)	52.25
Nominal Depth of Discharge	0-100%
Cell	Top-Terminal Prismatic 314 Ah
Configuration	52S2P
Max Cont. Discharge Rate	0.5P
Max Cont. Charge Rate	0.5P
Energy Density	295 Wh/L
Mass	675 kg
Module Height	243 mm
Module Width	717 mm
Module Depth	2078 mm (+ fastener)
Operating Voltage	130 – 166 – 190 V
Charge Operating Temp.	0-55°C
Discharge Operating Temp.	-30-60°C
Thermal Management	Liquid cooling
Ingress Protection	IP66
Max Operating Altitude	5000 m
Module BMS	Aries Grid Cell Monitoring Unit
Max Balancing Current	300 mA
BMS Communication Protocol	TPL
Key Certifications	UL/CAN 1973 (component level, with CoA); UL/CAN 9540A; UN 38.3

Cell Monitoring Unit  
(2x per module)



LFP cell and ESS module manufacturing at ONE Circle – Michigan, USA



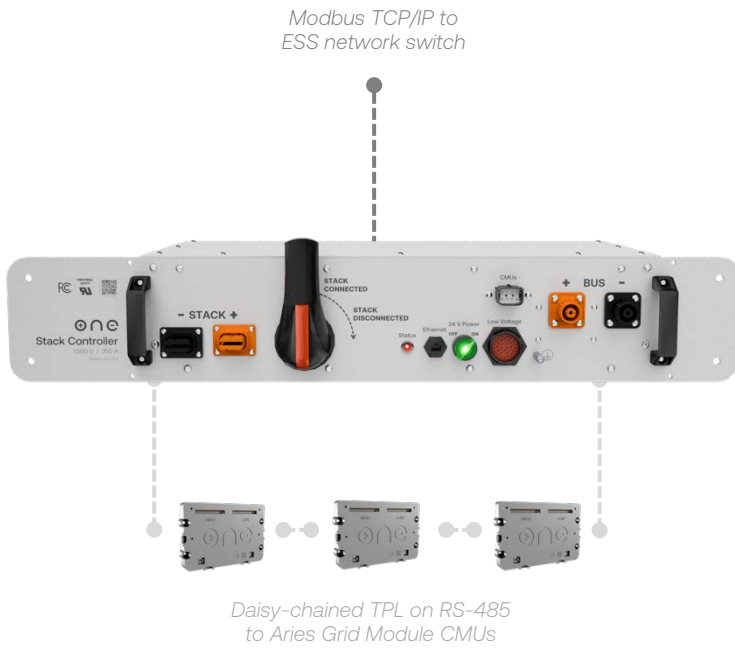
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ONE offers a fully domestic utility-scale LFP battery system:



## Aries Grid BMS

Model Name	Aries Grid Stack Controller
Model ID	BMS-SC-350
Continuous Current	350 A <sub>rms</sub>
Transient Current	600 A <sub>rms</sub>
Max Voltage	1,500 V <sub>dc</sub>
Power Supply	24 V <sub>dc</sub>
Communication to ESS Control	Modbus TCP/IP
Key Certifications & Testing	UL/CAN 60730-1; UL/CAN 1973

## 836 kWh Battery Rack

Model Name	Aries Grid 836 kWh Rack
Model ID	R-416S2P-HIC/R-416S2P-HOC
Nominal Capacity	836.0 kWh
Max Charge/Discharge Power	418.0 kW
Configuration	416S2P
Key Certifications & Testing	UL/CAN 1973



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