

M100-LS71 Battery Module



PRELIMINARY TECHNICAL INFORMATION

Aquion Energy's 19.2 kilowatt-hour M100-LS71 Battery Module delivers cost-effective energy storage that is high-performance, safe and sustainable. Based on Aquion's patented Aqueous Hybrid Ion (AHI™) technology, the M100-LS71 combines twelve Aquion S10-007F Battery Stacks in a parallel configuration for stationary, long-duration cycling applications.

PRODUCT INFORMATION

Time (h)	2	4	8	12	20
Current (A)	105	71	45	35	24
Capacity (Ah)	210	284	363	419	489
Energy (kWh)	6.9	10.9	14.2	16.4	19.2

Constant Current Discharge, 30°C

Voltage Range	35 to 52 Vdc
Nominal Capacity	489 Ah at 20 hour discharge, 30°C
Nominal Energy	19.2 kWh at 20 hour discharge, 30°C



OPERATION & PERFORMANCE

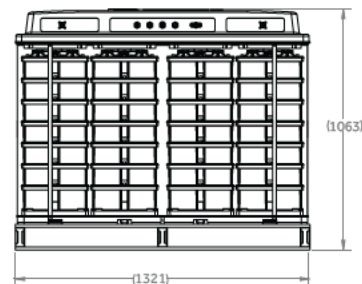
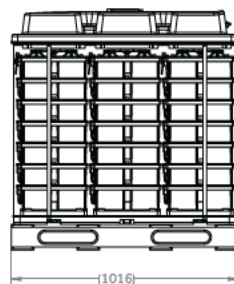
Cycle Life	>3,000 cycles
Operating Temperature Range	-5 to 40°C
Round Trip DC Efficiency	>85% at 20 hour discharge, 30°C
Charge / Discharge Modes	CC, CP, CV, AC ripple tolerant
Onboard Sensing	Voltage, Current, Temperature
Series Configuration	Up to 1,000 Vdc

CONNECTORS

Battery Terminals	Amphenol Radlok
24 V / Communications	Amphenol SineCo
Earth Ground Lug	3/8-16 Lug

Physical Characteristics

Height	1,063 mm (41.9")
Width	1,321 mm (52.0")
Depth	1,016 mm (40.0")
Weight	1,285 kg (2,833 lbs)



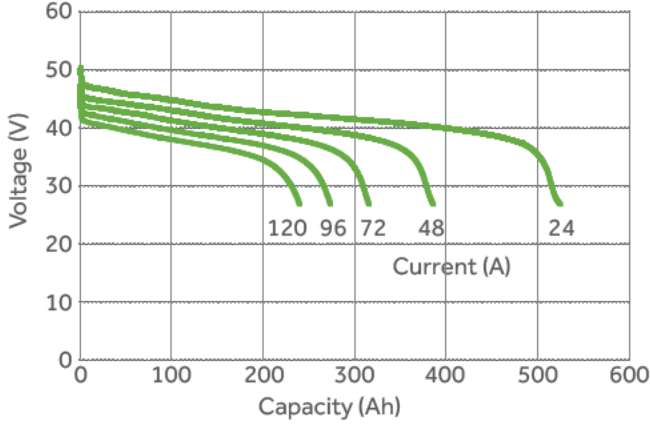
© Aquion Energy, Inc. Product image and dimensions based on alpha stage prototypes.

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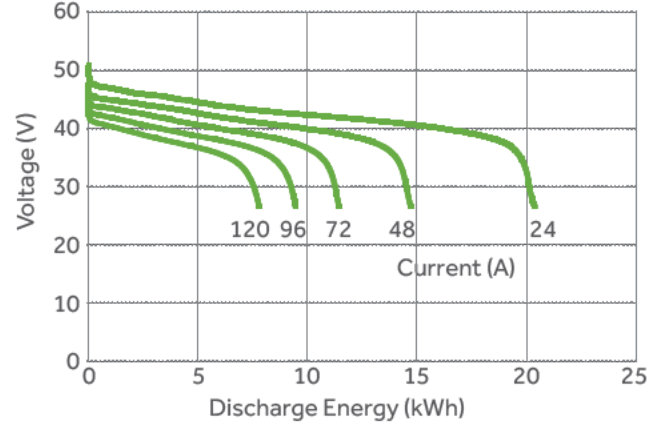


ESTIMATED PERFORMANCE DATA AT CONSTANT CURRENT DISCHARGE

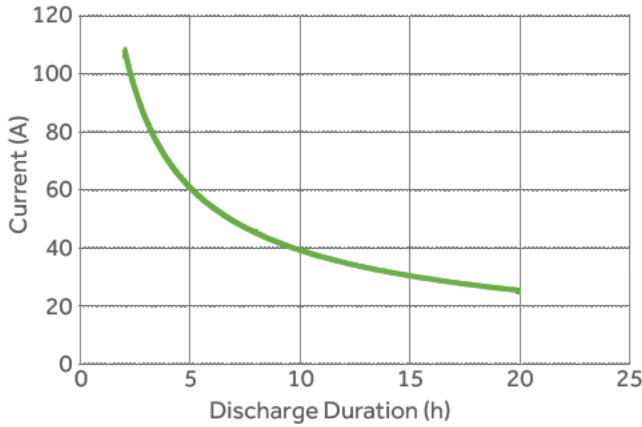
Voltage vs. Capacity



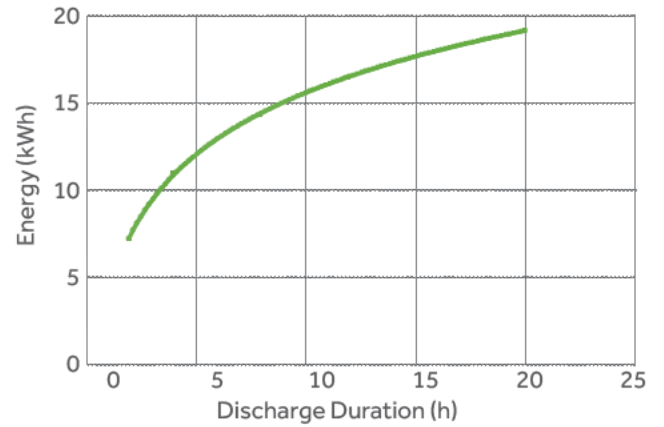
Voltage vs. Energy



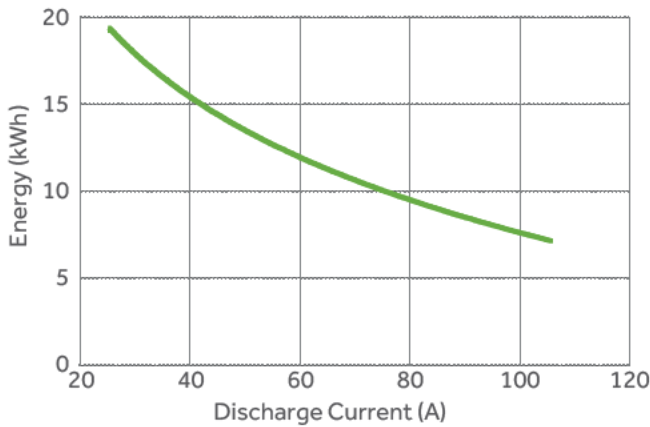
Current vs. Discharge Duration



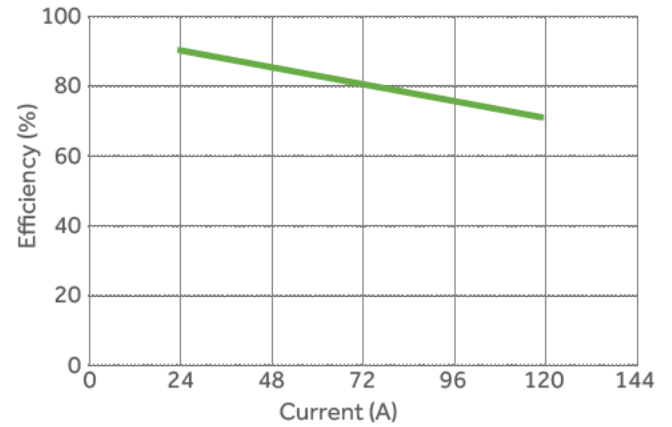
Energy vs. Discharge Duration



Energy vs. Discharge Current



Round Trip Efficiency vs. Current



Estimated performance characteristics based on testing conducted by Aquion Energy. Performance may vary depending on use conditions and application. Aquion Energy makes no warranty explicit or implied with this preliminary technical information. Contents subject to change without notice.

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