

New Product Presentation



Aspen 48S and Aspen 48M



With the two batteries **Aspen 48S** and **Aspen 48M** of Aquion we introduce you to the **world's safest and most environmentally friendly** batteries. They are based on a **salt water electrolyte** and are **maintenance free**. The Aquion batteries are the optimal power storage for PV systems.

Aqueous Hybrid Ion (AHI) Chemistry



Furthermore, they are characterized by the following features:



- + Touch-safe
- + 48 VDC safety extra-low voltage



- + high temperature tolerance
- + robust design



- + non-flammable
- + thermal runaway impossible



- + absolutely maintenance-free
- + absolutely leak proof; refilling of liquid not necessary



- + the world's only battery, which has received the „Cradle to Cradle“ certificate
- + do not contain toxic elements; environmentally sustainable production process

The Aquion batteries are scalable from kW to the MW range:



Technical Data

Aspen 48S Battery

Operation & Performance

Chemistry:	Aqueous Hybrid Ion (AHI™)
Energy:	2.2 kWh (at a 20 hr discharge)
Cycle Life:	3,000 cycles (to 70% retained capacity)
Operating Temperature:	-5 to 40°C ambient at 24h average
Nominal Voltage:	48 VDC
Usable Depth of Discharge:	100%
Round Trip Efficiency:	>90%

Physical Characteristics

Dimensions:	935 x 330 x 310 mm (36.8 x 13.0 x 12.2")
Weight:	118 kg (260 lbs)
Certifications:	Cradle to Cradle Certified™ Bronze UL recognized & CE marked

Warranty

Limited Warranty:	5-year full plus 3-year prorated
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Aspen 48M Battery

The Aspen 48M is a parallel string of twelve Aspen 48S batteries configured as a single, palletized battery unit.

They can be connected in series up to 1,000 volts DC.

Operation & Performance

Chemistry:	Aqueous Hybrid Ion (AHI™)
Energy:	25.9 kWh (at a 20 hr discharge)
Cycle Life:	3,000 cycles (to 70% retained capacity)
Operating Temperature:	-5 to 40°C ambient at 24h average
Nominal Voltage:	48 VDC
Usable Depth of Discharge:	100%
Round Trip Efficiency:	>90%

Physical Characteristics

Dimensions:	1,159 x 1,321 x 1,504 mm (45.6 x 52.0 x 40.0")
Weight:	1,504 kg (3,309 lbs)
Certifications:	Cradle to Cradle Certified™ Bronze UL recognized & CE marked

Warranty

Limited Warranty:	5-year full plus 3-year prorated
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