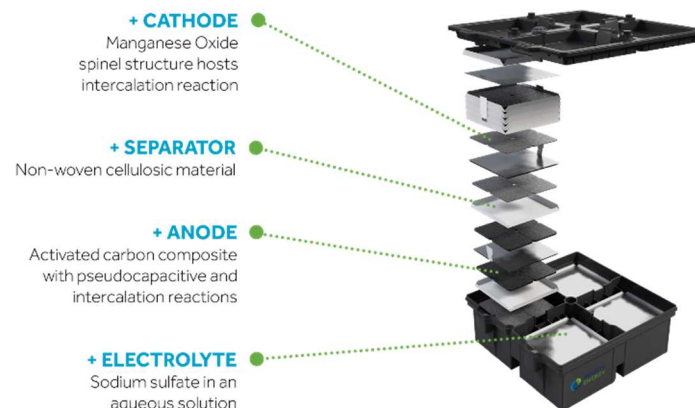


Aquion S30-0080 Battery – Data Sheet

Aquion Energy's S30 is the first cost-effective energy storage solution that is high-performance, safe and sustainable. Based on Aquion's patented Aqueous Hybrid Ion (AHITM) technology, the M100 is designed for stationary, long-duration cycling applications. The Aquion Battery has a very high Cycle Life at 100 % Discharge and a low reduction of capacity. The unique aqueous technology allows the battery to stay in a partial charged condition for extended periods without self-discharge or limitation of function.

- + Aquion's S30 Battery is based on a sodium sulfate-electrolyte.
- + The Battery contains no polluting material.
- + The system is non-flammable, non-explosive and requires little to no maintenance.



Advantages of Aquion's S30 Battery

- + **Long Lifetime** at 100 % Discharge
- + No need of **an active Battery Management**
- + **Minimal** degeneration
- + **Non** explosive, non flammable or corrosive
- + **No dangerous** or **toxic** materials
- + **Low acquisition** costs (€/kWh)
- + **No service** needed



Technical Highlights - Aquion S30-0080

Operation

Operating Temperature:	-5 to +40 °C
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Efficiency

Round Trip Efficiency:	> 90 % at 20 h Discharge
Cycle Life:	> 3000 Full Cycles
Depth of Discharge (DOD):	100 %

Product Performance

Voltage Range:	40 to 57,6 Vdc
Capacity:	48,3 Ah at 20 h Discharge
Energy:	2,6 kWh at 20 h Discharge
Nominal Voltage:	48 V
Continuous Power:	680 W
Continuous Current:	17 A

Size & Weight

Dimensions:	310 x 330 x 935 mm
Weight:	118 kg

Product Performance

Embodied Energy (Wh)		Charge Duration (h)				
		4	8	10	12	20
Discharge Duration (h)	4	1,264	1,520	1,600	1,647	1,803
	8	1,335	1,672	1,780	1,848	2,055
	12	1,389	1,775	1,900	1,982	2,217
	20	1,569	2,046	2,200	2,307	2,603

Embodied Capacity (Ah)		Charge Duration (h)				
		4	8	10	12	20
Discharge Duration (h)	4	28,7	35,0	37,2	38,7	42,5
	8	30,3	37,0	39,4	40,9	44,9
	12	31,3	38,2	40,6	42,3	46,3
	20	32,6	39,8	42,3	44,0	48,3

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