

## Product information sheet

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## Lithium Power Pack 12 V/100 Ah

The lithium-ion battery from Clayton is a true 12 V power pack. It is available with a capacity of 100 Ah and thus replaces much larger and heavier lead batteries of comparable capacity in the smallest space.

- // Integrated battery management system
- // Long lifetime
- // Compact and lightweight

The battery management system is already fully integrated and protects against overcharging and deep discharge. With a cycle stability of 2,000 cycles, the average service life is up to six times longer compared to conventional batteries.

In addition, lithium-ion batteries can be charged extremely quickly: They tolerate high charging currents. Under ideal conditions, the 100 Ah variant, for example, is fully ready for use again in less than an hour.

## Technical Information

Nominal voltage (battery)	12 V*
Rated charging and discharging current	50 A
Available Capacity	80 Ah
Cell Voltage	2.3 V
Cell Voltage, max.	4.2 V
Charging Voltage	15 V
Charging current, continuous	100 A
Communication	CAN (SAEJ1939) - Single Wire
Cooling	Controlled fan
Cycle stability (70 % DoD)	> 5,000
Cycle stability (80 % DoD)	> 3,000
Discharge current, continuous	100 A
International Protection (IP class)	IP20
Number of inputs	3
Number of outputs	2
Operating temperature	-40 °C ... +50 °C
Operating voltage, min.	9.2 V
Dimensions (L x W x H)	302 x 192 x 274 mm
Weight	14.26 kg

\*In the chosen option

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## Technical Information

Parallel connection	1 ... 20
Pulse Discharge Current, max. (10 min)	200 A (temperature controlled)
Pulse Discharge Current, max. (10 $\mu$ s)	> 1.000 A
Pulse Discharge Current, max. (5 s)	> 500 A
Self-consumption	350 mA
Self-consumption (sleep mode)	< 2 %
Self-consumption (sleep mode/month)	< 3 %

\*In the chosen option