

Power. Anytime. Anywhere.

Lithium technology. The new era of mobile energy!



+ Powerful Lithium Technology

Lithium has 50% to 80% more energy available than lead acid.



+ Compact design, reduced weight

Lithium weighs only 1/3 of traditional lead acid batteries.



+ Long lifetime

3000 cycles, full durability six times longer than lead acid.



+ Fast charging

Charge a 12VDC - 100Ah lithium battery in only 50 minutes



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More energy for high consumption and longer operation time

Lithium batteries are very powerful and offer a better energy utilisation during high consumption than traditional lead batteries. It is possible to utilise up to 80 % of their capacity compared to only 30-50 % of traditional batteries, and they may be charged and discharged in stages without affecting their lifetime.

Low weight, longer lifetime

Lithium batteries have a unique lifetime of up to 3000 charge/discharge cycles. They are compact and may reduce the total payload of vehicles with hundreds of kilo, for instance keeping rescue vehicles below 3,5 ton while making more space for important equipment.

Charge speedily and efficiently from mains or while driving

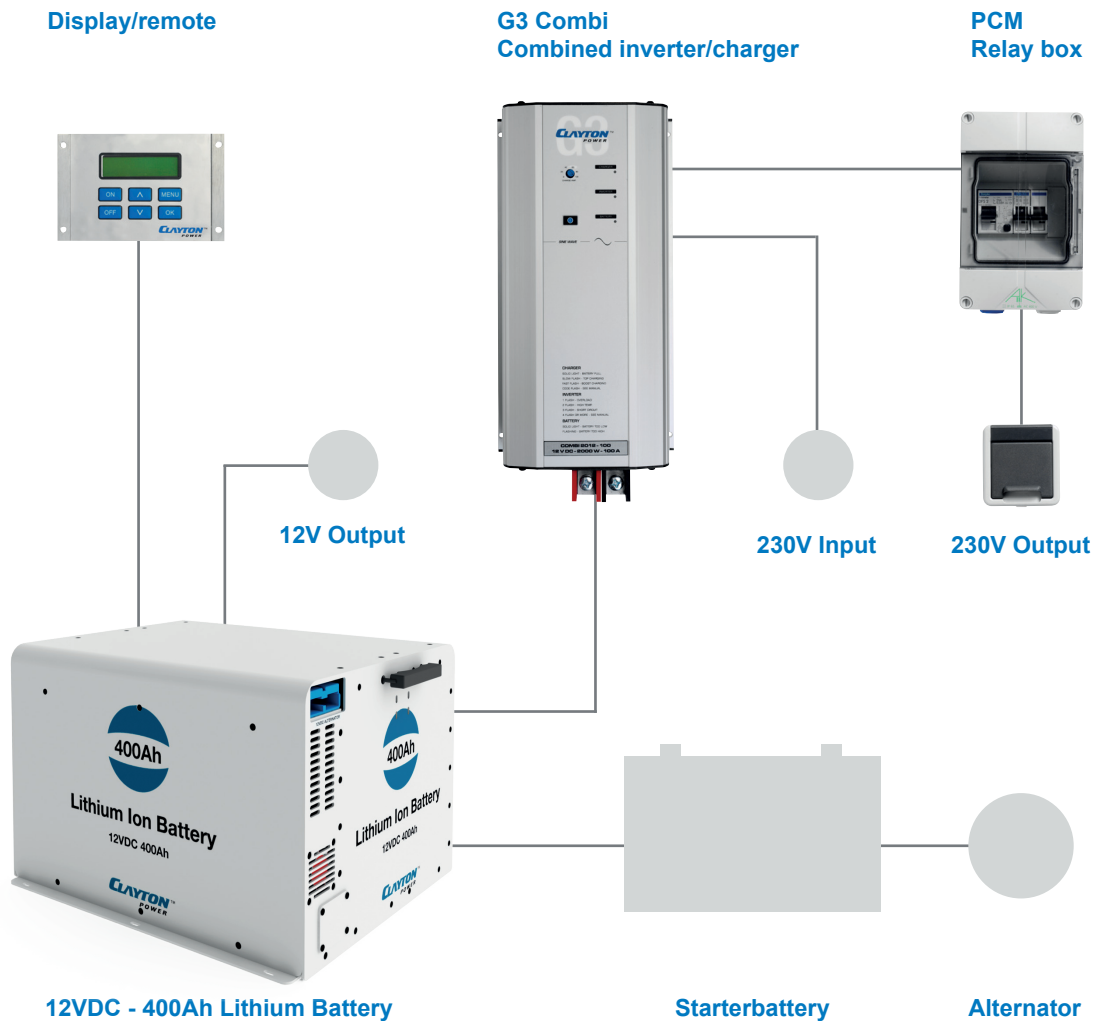
Charging times of down to 50 minutes for 12V - 100Ah lithium batteries keep them ready to provide power anytime, anywhere. The batteries are easily charged via the vehicle's alterbnator connected to the starter battery. A built-in electronic CDR Battery Separator ensures that the starter battery is not damaged but maintained during charging from mains and while driving.

Easy and safe use

Lithium batteries consist of several individual lithium cells. A built-in Battery Management System in Clayton Power products automatically stabilises and balances their voltage and temperature, ensuring optimal performance. A MOSFET-based Safety Breaker prevents shorts and ensures the safe and easy use of the batteries. No manual maintenance is required.

Lithium Power Systems for 12V/24V and 230V

More energy. Low weight. Long lifetime. Fast charging.



- + Get 12V or 24V and 230V/50Hz simultaneously
- + Charge while driving with excess energy from the vehicle – speedily and efficiently
- + Charge from mains – and top charge and maintain the starter battery
- + Get control and an easy overview of energy consumption, remaining operation time, and charging time

12VDC - 100Ah lithium ion battery



Operation time:
200W@230V 4h : 30min.
500W@230V 1h : 45min.
2000W@230V 25min.

Charging time:
50min.



12VDC - 160Ah lithium ion battery



Operation time:
200W@230V 7h
500W@230V 2h : 45min.
2000W@230V 40min.

Charging time:
1h : 15min.

230V operation and charging times are based on the use of a combined inverter/charger, the Clayton Power G3 Combi.

12VDC - 200Ah lithium ion battery



Operation time:
200W@230V 9h
500W@230V 3h : 30min.
2000W@230V 50min.

Charging time:
1h : 30min.

Combi 2012-100 (12V)
230V continuously: 2000W
230V for 15 min.: 2300W
Peak: 4000W

Charger: 100A

12VDC - 400Ah lithium ion battery



Operation time:
200W@230V 18h
500W@230V 7h
2000W@230V 1h : 40min.

Charging time:
3h : 15min.

Combi 2324-50 (24V)
230V continuously: 2300W
230V for 15 min.: 2500W
Peak: 4500W

Charger: 50A

24VDC - 100Ah lithium ion battery



Operation time:
200W@230V 9h
500W@230V 3h : 30min.
2000W@230V 45min.

Charging time:
1h : 40min.

Lithium ion battery (12V/24V)
DC output continuously: 250A
DC output for 15min.: 350A
Peak: 500A

The Clayton Power CDR Battery Separator ensures safe charging from the alternator of the vehicle via the starter battery. The separator is built into all our lithium batteries, except the 12VDC - 100Ah lithium ion battery, but may also be used externally.

24VDC - 160Ah lithium ion battery



Operation time:
200W@230V 14h
500W@230V 5h : 30min.
2000W@230V 1h : 10min.

Charging time:
2h : 40min.

Parallel connection is possible of up to 3x lithium ion batteries.

24VDC - 200Ah lithium ion battery



Operation time:
200W@230V 18h
500W@230V 7h
2000W@230V 1h : 30min.

Charging time:
3h : 15min.