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Welcome to the modern world of Clayton Power

"Embrace a new era of power solutions with Clayton Power" says Allan Kock, CCO and continues "Our customer-centric approach means tailored solutions and innovative technology. Choose us for reliability, efficiency, and a partnership that puts you first".

Please feel free to visit our new innovation center in Denmark, where we present cutting edge technology and can demonstrate the on-board power solutions of tomorrow.

Our new office space is available for customer visits, sales meetings or special events.

Contact sales@claytonpower.com for more information.



Clean and efficient power anywhere Development and manufacturing in Europe



At Clayton Power, we create innovative mobile power solutions which help our customers adopt to greener energy solutions. Today, we are represented in more than 20 countries across Europe.

Scalable production and delivery facilities.

Clayton Power has experienced an increase in demand for its products. Our brand new production facility has been operational since March 2022. The production capacity has been increased significantly. The new production site ensures a much more efficient work flow with focus on test and quality. The result is a decrease in our lead time.

Quality assurance
We strive to produce efficient, scalable, reliable and high quality solutions.
Our business objective is to develop and produce the best products in the market and become your preferred supplier.

Clayton Power holds an ISO 9001 standard, it defines the framework for an efficient quality management system. As well as the ISO 14001, international Standard to support environmental management and tackle climate

Clayton Power Magazine



LPS II 1500 W - 1 kWh SE

230 V/50 Hz output

Peak: 2600 W 1500 W Power:

12 VDC output

60 Seconds: 270 A Continously: 180 A

Built-in Li-Ion Battery

1320 Wh (100 Ah) Capacity: 1050 Wh Efficient energy:

Recharging

300 W Alternator: Solar panels: N/A Grid: 550 W

All-in-one LPS series

The all-in-one Lithium Power Supply (LPS) provides power to your 230 VAC and 12 VDC appliances without the complexities of additional equipment. Even when the vehicle is switched off, the LPS II will still recharge and power your tools.

More powerful and compact than ever

Sufficient power for your compressor, angle grinder and welding equipment whilst at the same time, your power tool batteries are recharging. You can focus on delivering the perfect service to your customers.

Heavy-duty 12 VDC tasks require an LPS II solution

Be it operating cranes and lifts, heaters, or working lights the LPS II's outlet of 350 A for one minute and 180 A continuously will be the reliable solution for your daily tasks.

A true industrial power solution with zero engine idling

No idling makes the LPS system environmentally-friendly, fuel saving and at the same time a competitive product on price, quality and durability.

Accessories

LPS II Mounting Bracket



LPS II Remote



Super Charge DC-DC Converter



LPS Charging Cable Neutrik (included)











LPS II 2000 W - 1 kWh

230 V/50 Hz output	
Peak:	3000 V
Power:	2000 V

12 VDC output 60 Seconds: 270 A Continously: 180 A

Built-in Li-Ion Battery

1320 Wh (100 Ah) Capacity: Efficient energy: 1050 Wh Recharging

500 W Alternator: Solar panels: 400 W Grid: 720 W

LPS II 2500 W - 1 kWh

230 V/50 Hz output	
Peak:	4000 W
Power:	2500 W
12 VDC output	
60 Seconds:	270 A
Continously:	180 A

Built-in Li-Ion Battery Capacity: 1320 Wh (100 Ah)

Efficient energy:

Recharging Alternator: 500 W 400 W Solar panels: Grid: 720 W

LPS II 3000 W - 2 kWh

230 V/50 Hz output	
Peak:	5000 W
Power:	3000 W
12 VDC output	
60 Seconds:	350 A
Continguely:	180 Δ

Built-in Li-Ion Battery 2112 Wh (160 Ah) Capacity: Efficient energy:

Recharging Alternator: 500 W 400 W Solar panels: Grid: 720 W

1900 Wh

160 W sFlex Solar Panel 117 x 68 cm (extra)



Easy overview and full control keep you in charge

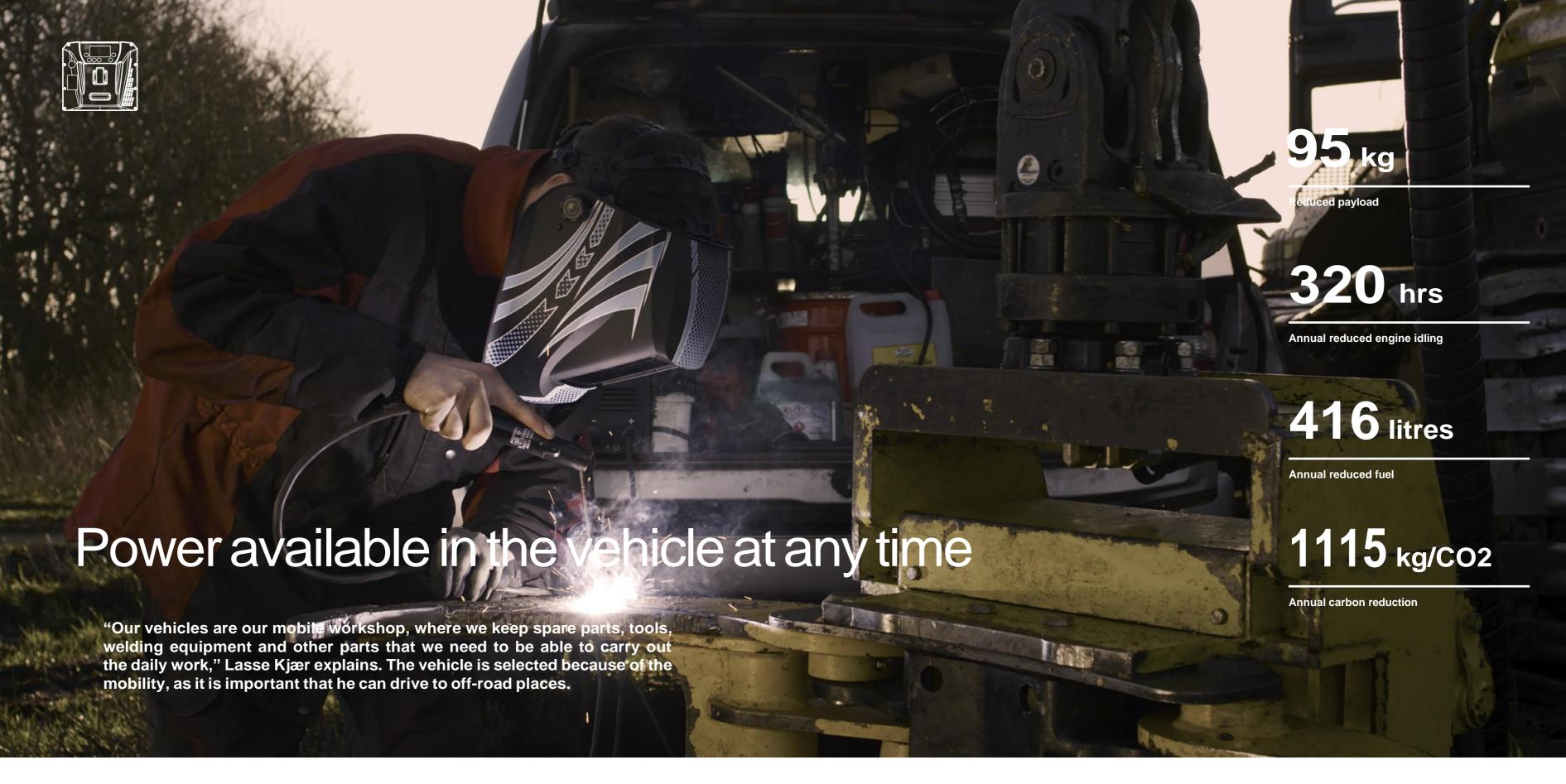
The built-in display gives you an overview of remaining operation/charging time, combined with rapid recharge ensures there will be no surprises.

1050 Wh

Smart functions, easy overview and adjustability

The LPS can be used in many setups and scenaries after your specific needs.

- + Adjustable 230 VAC charging
- + Adjustable 12 30 VDC charging
- + Adjustable Solar charging
- + Summary of charging history
- + Status overview
- + Jumpstart



Machinery service requires power

Forest contractor "Skoventreprenør Per Kjær APS" where Lasse Kjær is working, has a 3000 W LPS in the vehicle. The company "Skoventreprenør Per Kjær APS" spends 20% of the time on service and repair in the field. They often work in the countryside far from the company facilities, e.g., in the woods. In this case he is trimming a hedgerow of trees on an impassable location.

Machinery service needs power for:
Angle grinder
Battery chargers
Welder
Working light

The solution:

- 1 x LPS II 3000 2 kWh
- 1 x bracket for fastening in the vehicle
- 1 x remote control for the LPS II



Charging while driving

Access to power in the field is vital

It is important to have access to power on site in order to carry out the daily work. The tools are mostly electric, and the batteries must be recharged. It is quite easy to recharge the batteries from 230V because the all-in-one LPS automatically closes down when they are fully charged. Furthermore, there is an angle grinder and welding equipment for more comprehensive repairs. Both tools are supplied with power from the LPS.

LPS battery system recharges while driving

"The LPS is easy to handle because it runs itself. It recharges while I am driving so there is always power available when I need it. So far, I have never been out of power," says Lasse Kjær.



Compact and powerful:

All-in-one and everything included

Cutting-Edge Technology: Optimize, redesign and perform

Metal cage for noise reduction and safety Vibration and safety lested for leisure, industrial and automotive use.

Royal Directive 2011/8/5EU, EMC 2014/30/EU, E-Marking

Efficient high Royal R

Efficient high-voltage AC unit
Redesign of all functionalities for making the
LPS unit as ultra compact as possible. The highvoltage AC inverter has an impressive 94%

efficiency at 1000 W and high peak performance for start-up of heavy-duty loads.

High energy density Li-lon Battery Cells
High-end and compact LiFePO4 battery cells
with high energy density and long lifetime.

Compact components designed for harsh environments

All boards within Clayton Power's LPS are coated to ensure maximum functionality even in challenging environments. The inverter, charger, solar regulator, and DC booster have been designed to make the LPS II as compact and efficient as possible.



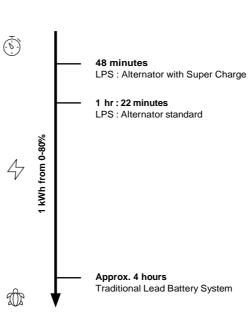


Efficient charging even with short drives

Even after a short charge, the LPS is ready to go. You can charge your LPS from the van rapidly while driving, from solar panels or the mains. The LPS charges with the built-in DC-DC converter from all modern Euro 6 vehicle's alternator, as standard with 45 A (500 W).

Double up on charging power with Super Charge DC-DC Converter

Adding Super charge is possible if the vehicle has a 150 A alternator. Super Charge doubles the charging power from the alternator to 90 A (approx. 1000 W). Even short drives make you fully operative and engine idling unnecessary. One kWh can be charged from 0-80% in only 48 minutes.



Solar charging is also good business

The LPS II recharges quickly both from the solar panels and from the vehicle when driving. This combination ensures a steady recharge.

Example with 300W recharging from solar panels on the vehicle roof:

700 hrs

Yearly recharging from solar panels

210 litres

Yearly fuel reduction

567 kg/CO2

Yearly carbon reduction

There are approx. 2100 hours of sunshine in London per year and 2800 in Berlin.

Generate CSR-reports from charging history via app

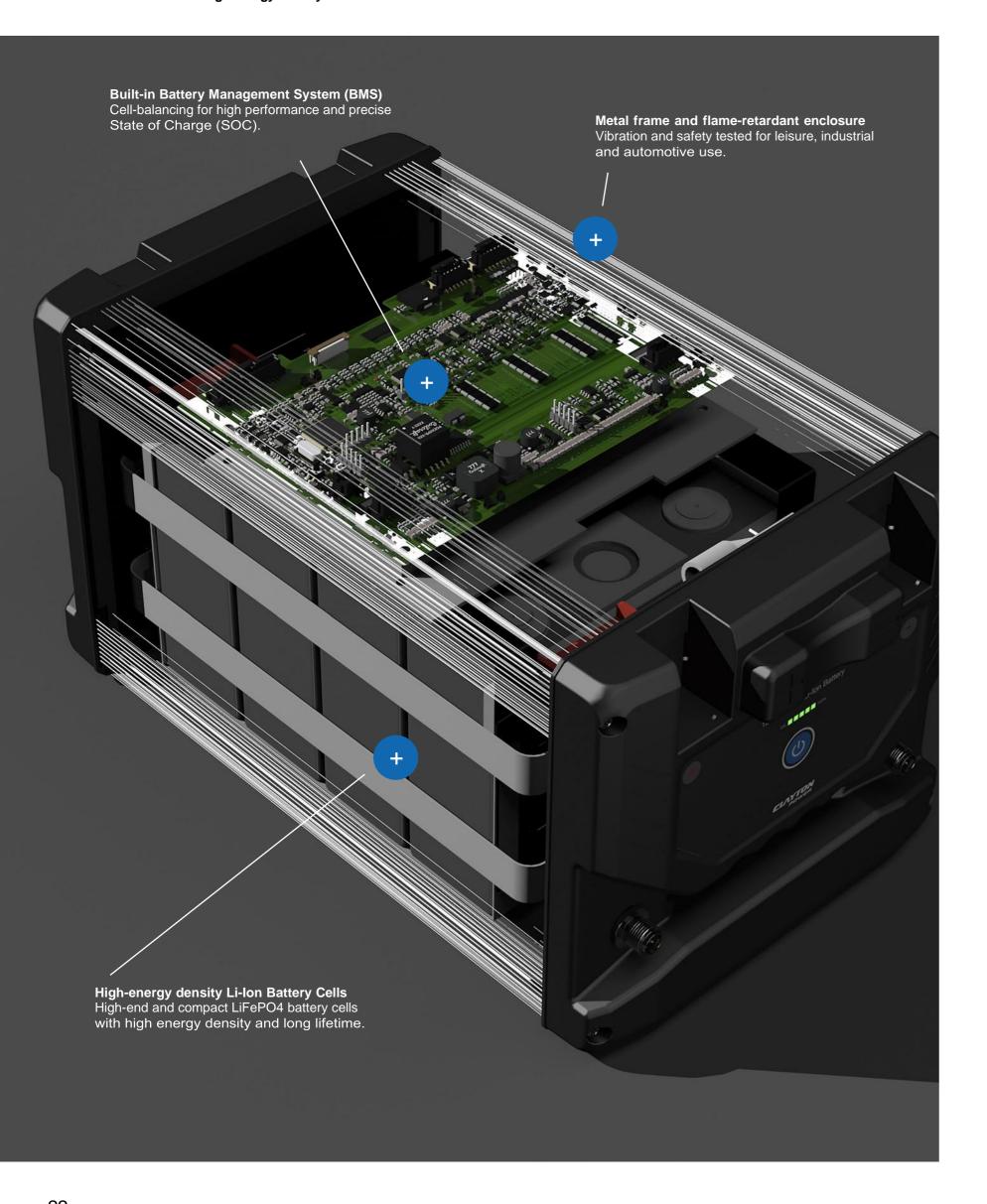


Easy access and overview with app

The Clayton Power Go App will provide access to the charging history, realtime consumption in Watt and the exact operation time. From the energy meter you can see exactly how much energy is left and how much is being charged from solar, alternator and mains.









New 12 V - 280 Ah and 100 Ah Li-Ion Batteries with ultra high energy density and long lifetime

- + Safe battery technology LiFePO4
- + Integrated Battery Management system
- + Ready for serial and parallel connection
- + Integrated power switch
- + Designed for heavy duty environments and requirements
- + Metal frame and flame-retardant enclosure
- + CAN bus communication for interconnections and remote control

Specifications:	CP Li-Ion Battery 100 Ah	CP Li-Ion Battery 280 Ah
Battery chemistry	LiFePO4	LiFePO4
Capacity	100 Ah (1280 Wh)	280 Ah (3584 Wh)
Available capacity	80 Ah (1024 Wh)	235 Ah (3008 Wh)
Continuous discharge current	200A	200 A
Continuous charge current	175 A	140 A
Cycle Life 80%DOD	2000 cycles @ (25 C, 80% DOD)	6000 cycles @ (25 C, 80% DOD)
Nominal battery voltage	12.8 VDC	12.8 VDC
Operation voltage discharge	14.4 VDC	14.4 VDC
Operation voltage charge	10.8 VDC	10.8 VDC
Connection terminals	M8 screw	M8 screw
Weight	11 kg	28 kg
Dimensions in mm (HxWxL)	187,4 x 197 x 343,3	234,4 x 197 x 438,3



Superior charging and discharging rates

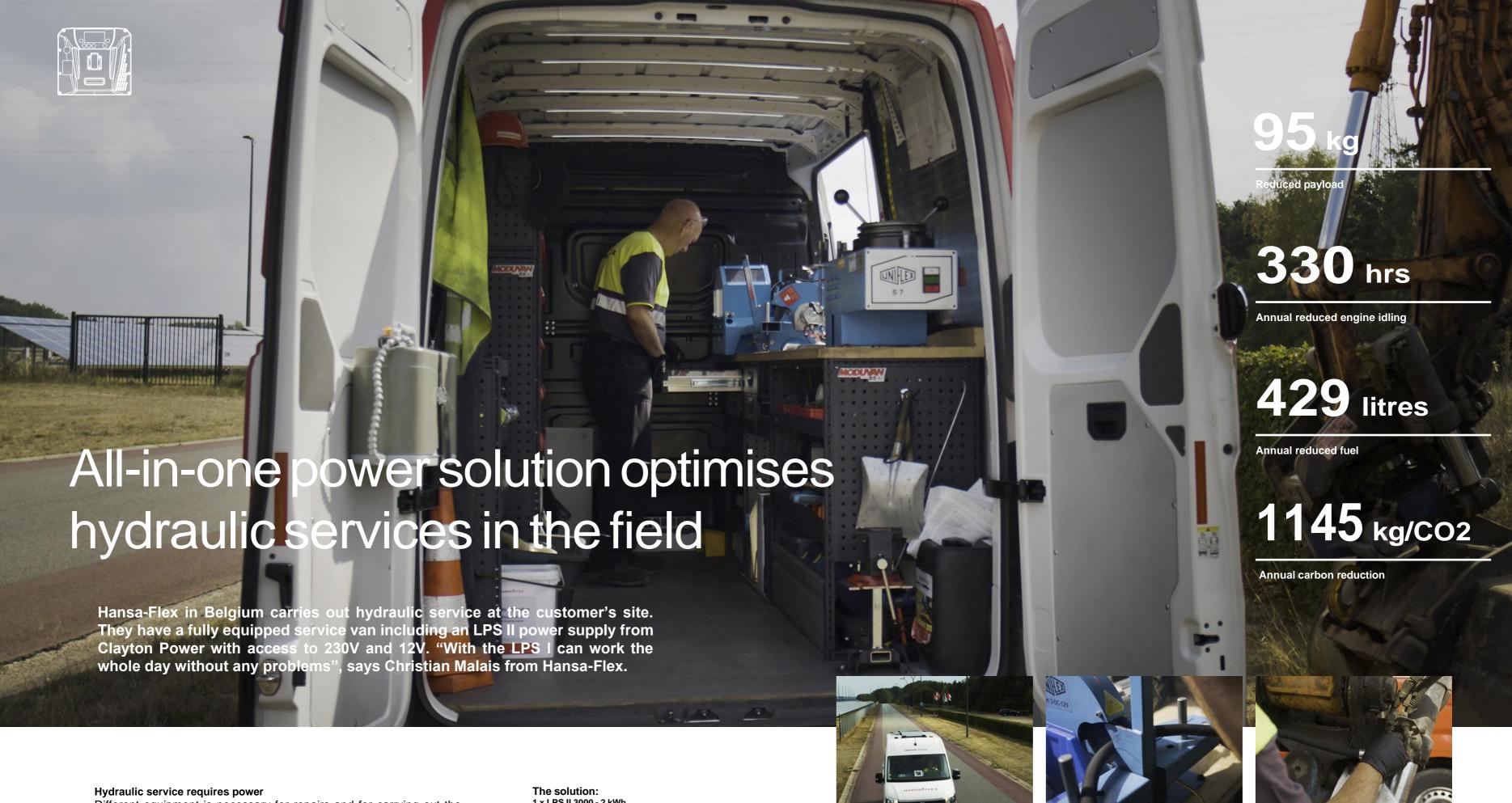
The G4 Lithium Ion Batteries have been equipped with the cutting edge technology of the LPS II and combined with the best in class weight energy ratio, superior charging and discharging rates, and long lifespan. We believe we have created one of the best performing lithium batteries



Capacity extension to the LPS ensures all future needs

The introduction of the G4 battery range offers the LPS II customers more flexibility. If the need should arise, the LPS II can easily be upgraded with one or multiple G4 batteries increasing the capacity of the LPS II. The battery is connected to the LPS with a simple communication cable and a DC-DC converter.

The LPS II will automatically detect G4 extension and update the information in the display with adequate run-time and energy-meter data.



Different equipment is necessary for repairs and for carrying out the hydraulic service. A lot of the equipment requires 230V. On site Christian Malais uses a peeling machine, a cutting machine and a hydraulic hose pressing machine. This equipment is charged automatically by the LPS and the solar panels. Safety is important of course. The LPS also supplies the warning light which requires 12V.

Hydraulic services need power for: **Battery chargers Cutting machine** Hydraulic hose pressing machine Light beacons **Working light**

- 1 x LPS II 3000 2 kWh
- 1 x bracket for fastening in the vehicle
- 1 x remote control for the LPS II

Solar panels on the roof



Charging while driving

Flexibility to work everywhere

Hansa-Flex often works in places without any access to power. Previously, they were reliant on power from the client. "Now I can just work independently, completely on my own without any problems", states Christian Malais.

Hansa-Flex goes green

Hansa-Flex has solar panels on the roof of this vehicle. The LPS contains a solar regulator, so it is easy to connect solar panels to the LPS. Input from the solar panels can be monitored on the display of the LPS.



Innovation

Innovation is an important part of our core business. We have carried out development projects for some of the biggest companies in the world. We constantly optimize and simplify our products to make them fit the technological changes that we all experience every day.

In-house development

At Clayton Power, we have our own development team. It makes us flexible, and we can easily adapt our products to new demands and the global technological development. We develop everything in-house, hardware, software and mechanical design. The specialists in the development team work closely together and inspire each other. At the production site new ideas can be tested at an early stage. Test before the actual design phase helps us find the right path in the beginning of the process.



Using electric equipment on a daily basis is highly beneficial

Previously, we bought a lot of Aspen petrol. Now we have electric hedge trimmer, lawn mower, brush cutters, blower, and leaf collector. It depends on the tasks how many batteries we use during a day. It is between 2 and 8 batteries. 4Hoeje Landscape Gardeners has not been out of power since they installed the LPS in the vehicle. Before then they used an inverter and it was only possible to recharge while driving. This was often a problem.

The solution:

- 1 x LPS II 1500 1 kWh
- 1 x LPS bracket
- 1 x remote control
- 2 x 2.30 m solar panels
- 1 x Cable set for two solar panels

Fischer Panda UK

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Working environment is important

4Hoeje Landscape Gardeners has replaced the fuel driven equipment with cordless electric equipment because it is less stressful for the employees. The electric equipment has less vibrations, and there are no exhaust fumes.







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