



Power is what unites us.
Power is what we bring our clients.

-LITHIUM POWER SUPPLY (LPS)

PRIMEPOWER™
PART OF MICROPOWER GROUP

LITHIUM POWER SUPPLY (LPS)



Charge the device through the vehicle's generator with the built-in DCDC converter with a power of 45Ampere.



Connect your 12V equipment directly to the device with power up to 600W.



Charge the built-in battery from 20% - 100% in just 60 minutes directly from the mains using the built-in charger with a power of 80Ampere.



The built-in 12VDC-230VAC / 50Hz inverter supplying a continuous power of 1300W and a peak power of 2500W with a perfect sine wave.



Have full control over the device using the LCD-screen. Charging status, current consumption and battery status are some of the features.



Have access to all the energy you need with the built-in Lithium battery (LiPo4) of 100Ah.

Clayton's Lithium Power Supply (LPS) is the first of its kind and a revolutionary product in terms of mobile power.

With Clayton LPS, you always have access to power when you need it. The built-in 100Ah lithium battery has many advantages over the more traditional lead-acid batteries, 1/3 of the weight, 1/3 the size and double the service life are just some of the great advantages.

LPS is very easy to use and install. Either mount the unit in your vehicle and connect the device to the vehicle's battery or use it as a mobile power source. The unit can also charge directly from solar panels connected to the DC input.

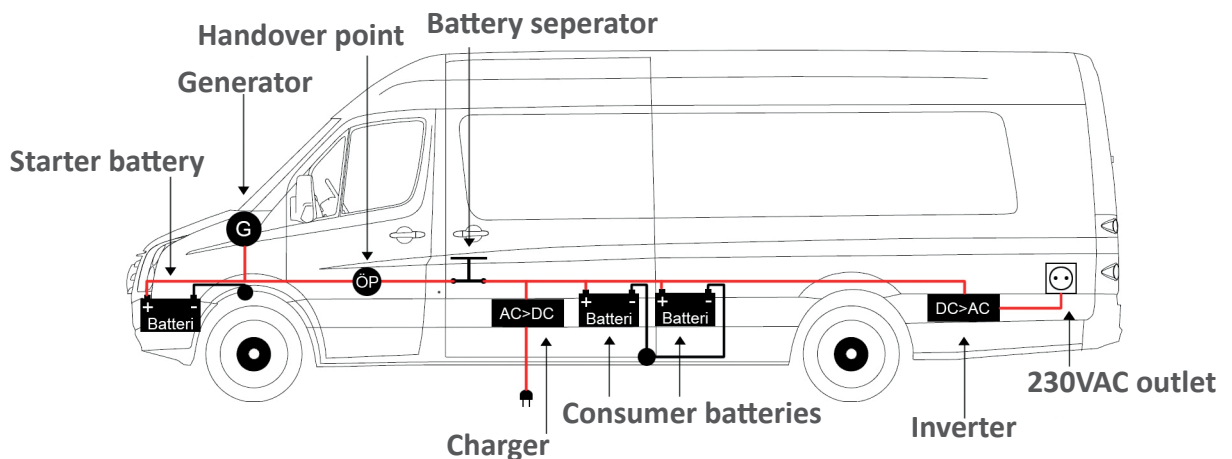
Compared to a conventional fixed installation, with equal power, you will save up to 50% in weight using the LPS. In addition to the weight saving you also have the ability to easily move the device between vehicles.

Should the starter battery, for whatever reason, fail to work, the LPS has a built-in feature called "Starter Help". This function uses the access power of the LPS to charge the starter battery for 5 minutes with a power of up to 50A.





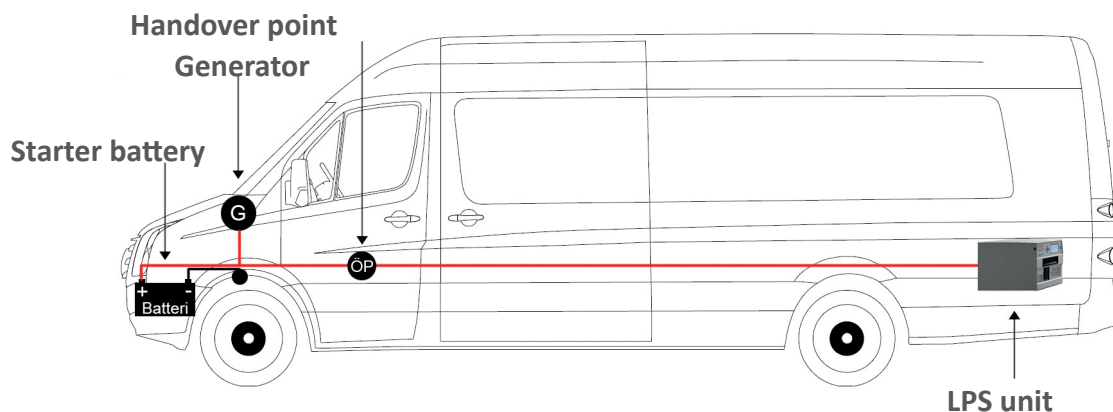
CONVENTIONAL INSTALLATION



If we are to achieve an equivalent function to LPS with a conventional 12VDC - 230VAC installation, you need several components, heavy batteries and professional help during the installation. We estimate an average of 8 hours of installation time, compared to 1-2 hours with an LPS installation.

The image above shows how a conventional installation to access 230VAC in a vehicle looks like, you can clearly see the complexity of the installation in comparison with the installation of a LPS unit (image below). A setup similar to the power and energy of an LPS has an average weight of about 57kg. An LPS unit weighs only 28kg!

LPS INSTALLATION



You don't need to be an electrician to install the LPS unit in a vehicle. The LPS comes fully charged and the unit will be completely ready to use. Just plug it in

to your vehicle's starter battery or use it as a mobile power source, the LPS takes care of the rest!

LPS**230V****12V**

TECHNICAL SPECIFICATION

Battery type	100Ah-12V (LiFePO ⁴)
Battery capacity	100Ah <small>(1320Wh)</small>
AC input voltage	207-253 VAC / 45 -65 Hz
AC input power to charge the built-in battery	80A
AC output voltage	230 VAC pure sine wave / 50 Hz
AC output power - Continuously	1300W <small>rms (6A)</small>
AC output power - 15 minutes	1500W <small>rms (6,5A)</small>
AC output power - Peak	2500W <small>rms</small>
AC output power when connected to the mains	1800W (8A) <small>(max 2300W (10A))</small>
DC input voltage	12 - 15 VDC / max 50A
DC output voltage	13,2 VDC <small>(9,2 - 15 VDC)</small> / 60A <small>(100A 1 min)</small>
Operating temperature <small>(Output limited below 0°C)</small>	-20°C - 50°C
Remote controlled	Yes, D-sub 9-Pin connector
cooling	forced air (fan)
Self-discharge rate per month <small>(sleep mode)</small>	< 3%
Operating mode self consumption <small>(Only 12VDC output activated)</small>	5 W
Operating mode self consumption <small>(12VDC & 230VAC output activated)</small>	22 W
Sleep mode consumption	< 25 mW
Connection 230VAC	Neutrik & Schuko
Connection 12VDC	Anderson SB50
IP Class	IP21
Weight	28 Kg
Dimensions (H x W x L) mm	250 x 244 x 390
Package weight	32 Kg
Package dimensions (H x W x L) mm	350 x 355 x 495

