



Equipment for leisure vehicles

ON-BOARD CHARGERS • DC/DC CONVERTER • BATTERY COUPLER & MONITOR
CHARGERS / BOOSTERS / EV CHARGERS • DC/AC INVERTERS • POWER BANK

POWER WITHOUT COMPROMISE

GIVE YOURSELF PEACE OF MIND.

Every day, as you embark on adventures in your recreational vehicle, in the heart of nature and far from civilisation, the increasingly sophisticated comfort offered by your 'home on wheels' depends exclusively on batteries. **Ensuring that they work properly and that they are properly recharged can be a real challenge.** You need to pay close attention to their charge levels at all times, constant supervision is required, which can detract from the relaxing nature of your trips.

What if you could enjoy your travels without the stress? Drawing on all our expertise in battery maintenance, GYS has developed an innovative solution combining an on-board charger and a reversible DC/DC inverter to **optimise energy management.** Your batteries will be kept in perfect health, with automatic charge regulation, ensuring complete independence, even in the most remote locations.

The cutting-edge solution
for dual-battery electrical systems.

On-board charger



DC/DC converter



GYSFLASH 18.12 PL-E
30.12 PL-E
15.24 PL-E



ENERGYS DC/DC 50.12/24

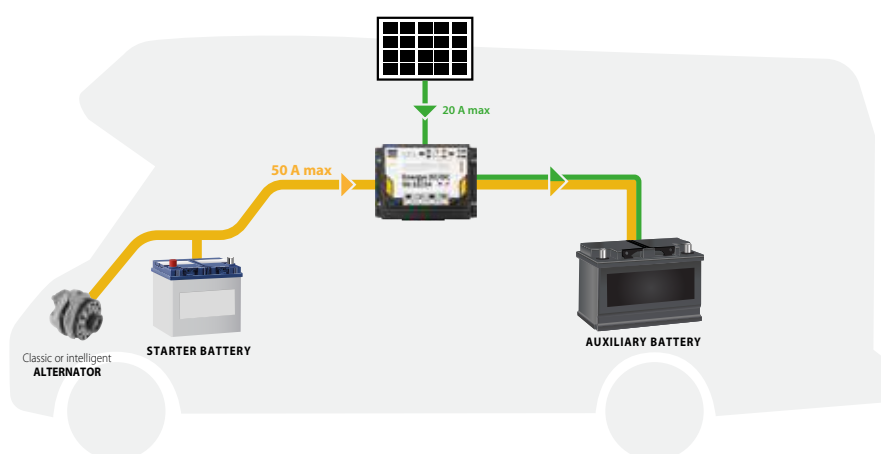


POWER IN ANY SITUATION

ON THE ROAD

While driving, the Energys DC/DC uses the energy supplied by the alternator and solar panels to fully recharge your auxiliary battery, regardless of the type of alternator in your vehicle (conventional or smart).

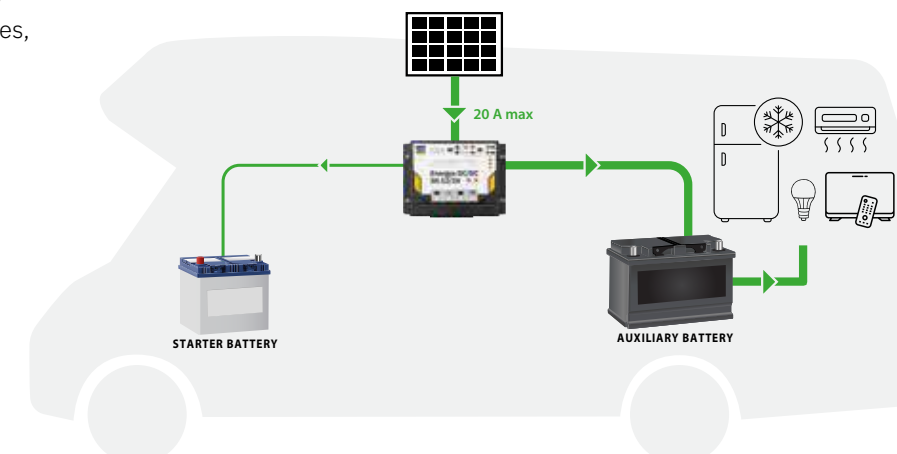
You will have the maximum level of self-sufficiency once you arrive at your destination.



STOP OFF IN A REMOTE ENVIRONMENT

The solar panels deliver the energy needed to recharge the two batteries, as well as the various electrical equipment in your vehicle.

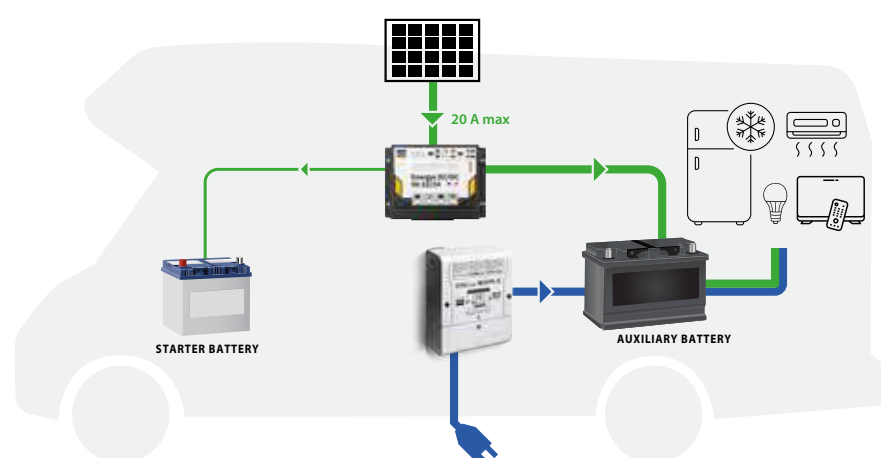
You can continue to travel independently, even in remote areas.



STOP OFF IN A DESIGNATED LOCATION

The Gysflash PL-E can be connected to a mains supply. It will recharge your auxiliary battery whilst also supplying power to the various electrical consumers in your vehicle, such as the TV or fridge.

The solar panels can also provide support via the Energys DC/DC for even more efficiency.



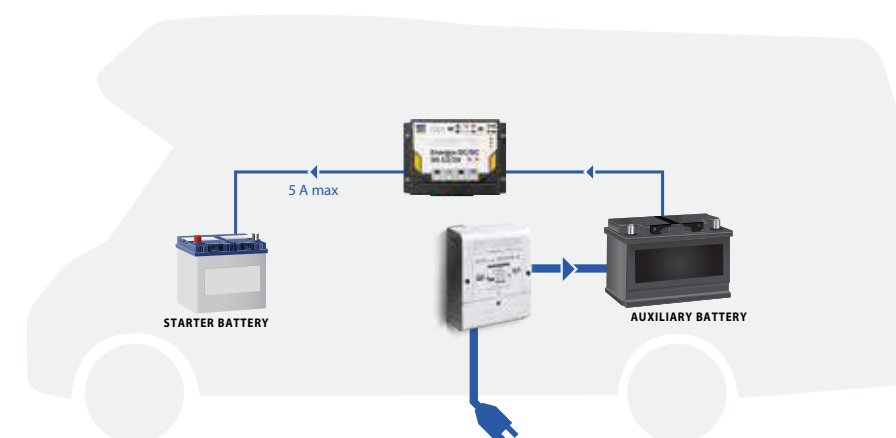
DURING WINTER

The Gysflash PL-E can be connected to the mains and ensures that your auxiliary battery is kept perfectly charged.

There's no need for a second charger!

The Energys DC/DC maintains the charge of your starter battery by taking a small amount of the energy available from the auxiliary side.

Your two batteries will remain in optimum condition throughout the winter.



GYSFLASH

18.12 / 30.12 / 15.24 PL-E

Long live your auxiliary batteries!

The GYSFLASH PL-E is the definitive innovation for recharging auxiliary batteries. Their innovative design features three charging curves designed for Lead/Liquid, Lead/AGM and Lithium/LiFePO4 technologies, and is compatible with both 12 V and 24 V batteries. Their exceptional efficiency ensures you get maximum charge results, making them the ideal choice for optimising the performance of your battery.



Exceptional output yield of 91%.

Whilst a traditional charger only offers a yield of 80%, the GYSFLASH halves the amount of energy lost during charging.



15% reduction in energy consumption

By reducing the energy consumed by the mains, the charger is not only a smart choice for the environment, but also for your wallet.



Leading the way in standards compliance

The GYSFLASH PL-E complies with all current standards in terms of safety and Electro-Magnetic Compatibility.



Robust, silent design

A unique aluminium design with no air vents. The charger is both solid and durable, with minimal plastic content to minimise environmental impact.



LONGER BATTERY SERVICE LIFE

VERSATILE AND SUITABLE FOR ALL BATTERY TYPES

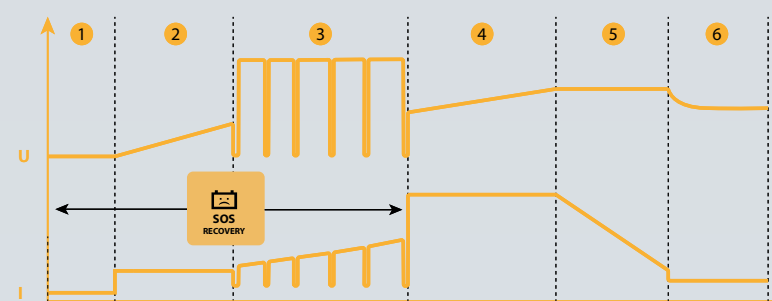
AUTOMATIC COMPENSATION FOR ELECTRICAL CONSUMERS

	 50/60 Hz	R		I _{max}	25°C @ 100 %	40°C @ 100 %	50°C @ 100 %	60°C @ 100 %	 Pb	 LFP		
GYSFLASH 18.12 PL-E 025806	~ 220-240 V	300 W	12 V	18 A	18 A	16 A	14 A	12.5 A	36 > 270 Ah	18 > 270 Ah	1.3 kg	21.5 × 17.5 × 7 cm
GYSFLASH 30.12 PL-E available on request	~ 220-240 V	500 W	12 V	30 A	30 A	27 A	23 A	18 A	60 > 400 Ah	30 > 400 Ah	1.6 kg	21.5 × 8 × 17.5 cm
GYSFLASH 15.24 PL-E 025943	~ 220-240 V	500 W	24 V	15 A	15 A	13.5 A	11.5 A	9 A	30 > 240 Ah	15 > 240 Ah	1.6 kg	21.5 × 8 × 17.5 cm

Unbeatable charging curves.

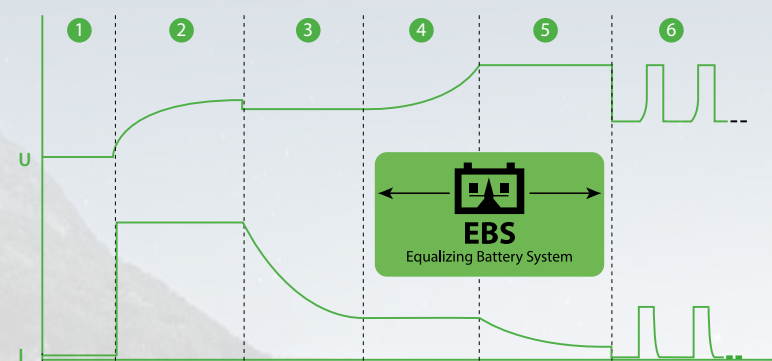
The product of extensive technical expertise, the charging curves featured on the GYSFLASH PL-E range are specifically designed to suit each type of battery technology. The 6-step process delivers a fast, effective, and low-impact charge for both lead-acid and lithium batteries. Each curve is carefully calculated to conserve the service life of the battery, whilst also maximising performance.

Pb Liquid / Gel / AGM / EFB



- › Optimised service life with a 100% charge
- › Safe charge maintenance during winter storage
- › Complete protection of both the on-board electronics and the user
- › Recovery of heavily discharged batteries.

Lithium LiFePO4 / Li-ion / Li-Po



- › The result of close collaboration with lithium battery manufacturers
- › "UVP Wake Up" (Under Voltage Protection) reactivates batteries that have been put into protection following a deep discharge.
- › Optimum cell balancing thanks to unique EBS (Equalizing Battery System) technology.



ENERGYS

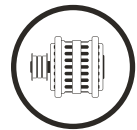
DC/DC 50.12/24

✓ EURO 6 STANDARD
E² E-MARK



An innovative device that will redefine energy management.

Essential to the smooth running of your leisure vehicle, the Energys DC/DC is the centrepiece of your electrical system. It is the perfect management tool, ensuring the most effective distribution of energy between your auxiliary and starter batteries, optimising the use of your alternator, on-board charger, and solar panels. Adaptable to all types of batteries, it delivers a continuous, balanced charge even on the longest journeys. As the key performance element of your electrical system, it separates the batteries when there is no power supply, preventing any unexpected discharge.



Compatible with "smart" alternators

Whenever the engine is running, the Energys DC/DC fully recharges your auxiliary battery, regardless of the voltage of the starter battery.

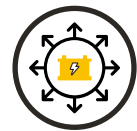
Unlike a simple battery coupler, it is fully compatible with new-generation alternators that comply with EURO 6 anti-pollution standards ("smart" alternators).



100% charge in all situations

With this unit, there is no need for the input voltage to be higher than the output voltage in order to fully recharge your battery.

The Energys ensures a full charge, even when the distance between the two batteries leads to a significant voltage drop.



Suitable for all configurations

The Energys DC/DC can be adapted to both lead acid batteries (liquid, gel, AGM, etc.) and lithium batteries (LiFePO4), in 12 V or 24 V, and offers a multitude of potential configurations for your electrical system.

- Automatic 12 V / 24 V detection
- UVP Wake-up function for reactivating lithium batteries.



Focus on clean energy

The Energys DC/DC draws maximum energy from any solar panels installed on the vehicle (20 A max) via its integrated MPPT regulator.

The clean energy, delivered by the panels to recharge the batteries, is always favoured over other energy sources, which reduces the load on the alternator.



Integrated "over-wintering" function

When the vehicle is stationary, and an on-board or external charger is maintaining the auxiliary battery, it will also maintain the charge of the starter battery by drawing a small portion of the available energy from the auxiliary side.



PERFECT FOR DUAL-BATTERY SYSTEM MANAGEMENT

CERTIFICATED WITH E-MARK

ENSURES SEPARATION OF BOTH BATTERIES

ULTRA-QUIET AND COMPACT

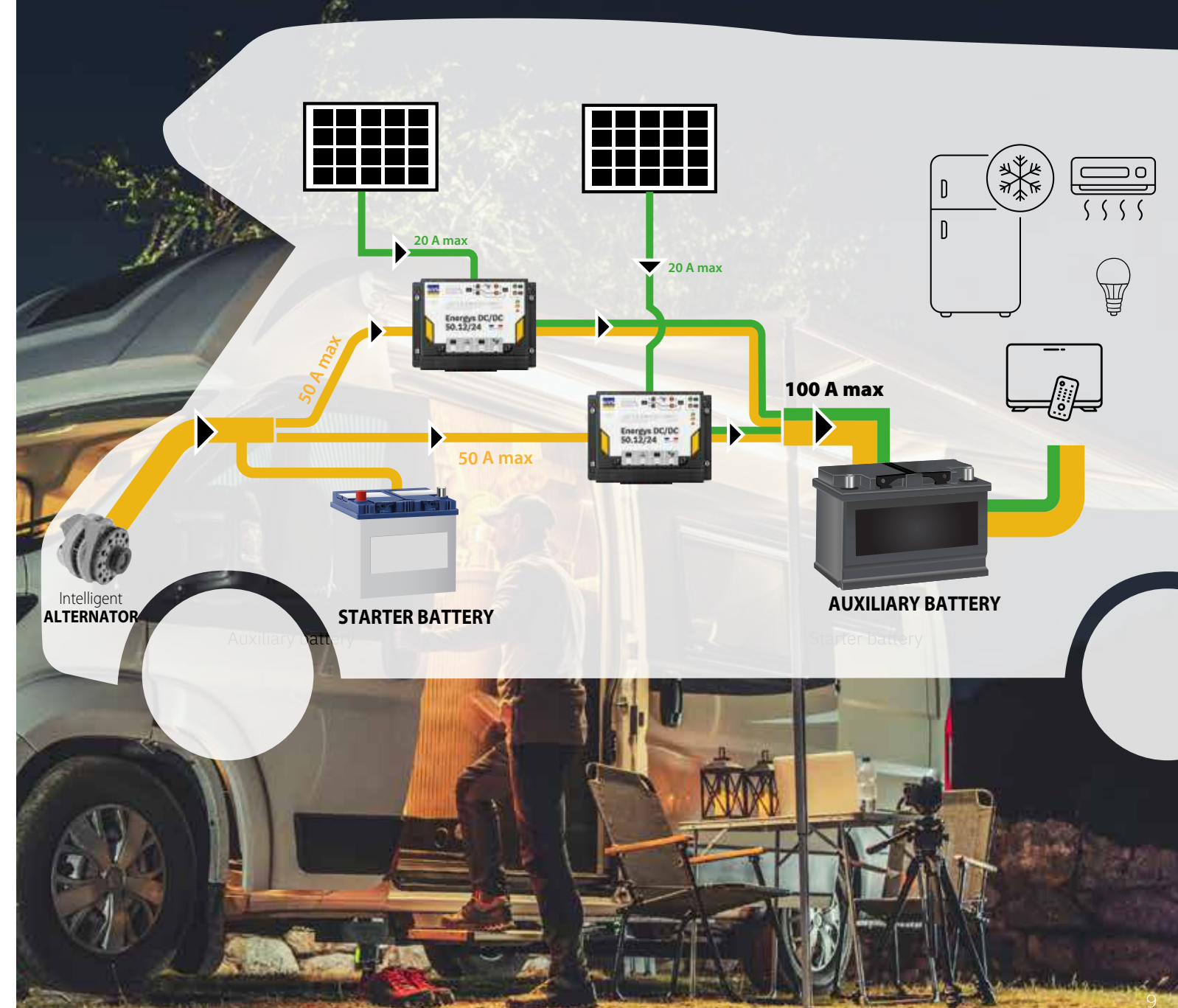
	Input bat.		Output bat.		Solar input		EFFICIENCY	Zz	mm	G
	U	I max	U	I max	U _{MPPT}	I max				
ENERGYS DC/DC 50.12/24 072534	12/24 V	50 A	12/24 V	50 A	9-30 V	20 A	98%	<2.5 mA	135 x 35 x 200	570

Increase your charging power.

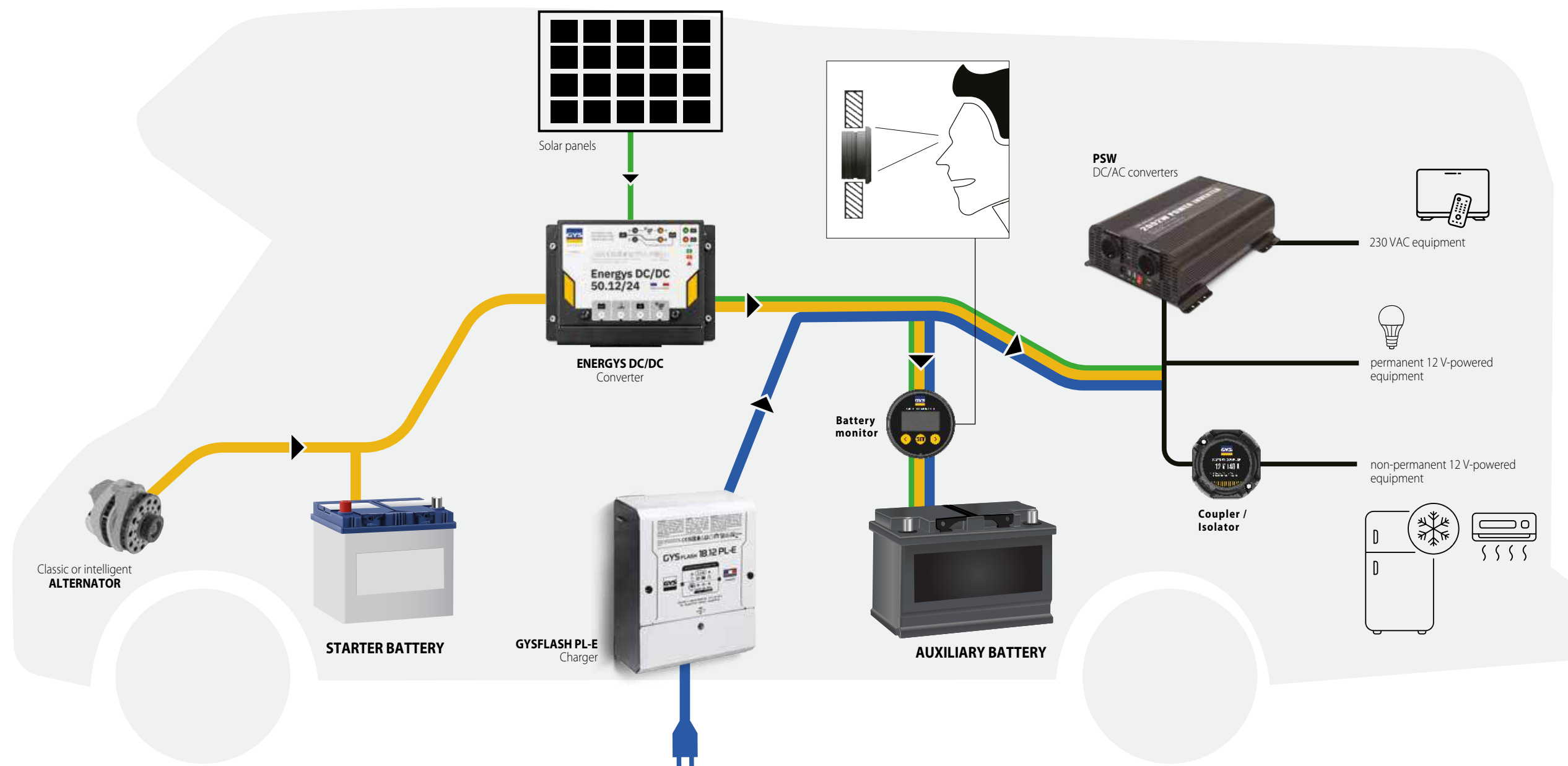
As the number of electrical devices in leisure vehicles increases, the power they consume grows, and the size of solar panel arrays increases, so it may be necessary to increase your charging power capacity. With the Energys DC/DC, you can easily couple several modules together to achieve the power your installation needs, ensuring smooth running and a long service life.

INCREASE THE CHARGING CURRENT FOR MORE EQUIPMENT

INCREASE THE POWER OF YOUR SOLAR ARRAY FOR GREATER SELF-SUFFICIENCY



THE COMPLETE SOLUTION FROM GYS FOR LEISURE VEHICLES



Supplementary equipment



- + Battery monitor (Shunt + Screen)
ref. 082557

Real-time monitoring system

Perfect for incorporating into the cab of leisure vehicles, the battery monitor provides an easy way to track and assess the state of health of the auxiliary battery. It offers the very best way of managing the battery, to preserve its service life, by accurately monitoring: battery voltage, current supplied and drained, power consumed, Ah supplied and drained, and battery charge percentage.



- + Battery Coupler 12 V / 140 A
ref. 082564

1. Coupler / Separator between two batteries

In a system with two 12 V lead-acid batteries, it connects the starter and auxiliary batteries together as soon as one of the batteries has a voltage of over 13.3 V.

2. Coupler / Separator between a battery and one or more pieces of equipment

You can use the coupler to power certain devices only when the auxiliary battery is charging: when the engine is running or when the motorhome charger is connected to the mains (example of the complete GYS solution above). This offers you greater self-sufficiency.

Charge all your equipment



+ GYSFLASH 1.12
ref. 029361

1 A - 12 V charger for recharging the lead acid batteries in quad bikes, scooters and motorbikes.



+ GYSFLASH 4.12
ref. 029422

4 A - 12 V charger for recharging lead acid batteries in passenger vehicles: from scooters to city cars.



+ GYSFLASH 3.48 PL
ref. 027893

3 A - 48 V charger for recharging lead acid and lithium batteries used in the electromobility sector.



+ GYSFLASH 10.36/48 PL
ref. 027060

10 A - 36 / 48 V charger for recharging lead acid and lithium batteries used in the electromobility sector.

Start all your vehicles in seconds.



+ NOMAD POWER PRO 901 FC
ref. 085879

High-performance 12 V lithium booster for starting motorbikes, cars, motorhomes, boats, etc. Quick-charging, it takes just 1 hour to fully recharge.

Recharge both plug-in hybrids fully-electric vehicles.



+ SUPER PRO SMART EV CHARGE
ref. 075320

SUPER PRO SMART - EV CHARGE is a charging cable for electric vehicles that can be used with either 230 V or 400 V sockets. It allows users to recharge their vehicle as quickly as possible based on the output capabilities of the power socket available.

Charger accessories.



+ Kit F5 - Flash / Cigarette lighter
ref. 029439

Adapter for recharging via the cigarette lighter socket in the vehicle.



+ Kit S3 - SAE / XLR 3 pin
ref. 027428

Adapter for connecting the charger to the XLR connector on some electromobility vehicles.



+ Kit S4 - SAE / T-BAR
ref. 027442

Adapter that allows the charger to be connected to the T-BAR connector on certain electromobility vehicles.

power cables supplied



single-phase plug
16 A - type C



three-phase
plug
32 A

optional



single-phase plug
CEE - 16 A



INVERTERS

AC / DC

Transform the auxiliary battery into a 230 V power supply.

Ideal for recharging or powering electrical appliances up to 2000 W (telephones, computers, hairdryers, motorhome appliances), PSW inverters incorporate USB ports in addition to 230 V sockets for recharging various electronic devices (GPS, cameras, etc.). Compact, light and efficient, they combine five types of protection to ensure the safety of your electrical installation: under/overvoltage, overload, overheating, short-circuit.



PSW (Pure Sine Wave) : PSW models deliver a stable voltage with the same quality as a mains power supply. They can power all devices, including the most sensitive ones (neon lights, televisions and PCs etc.).



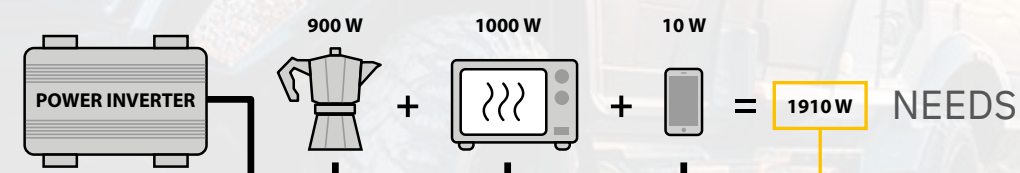
Simple and safe remote management of your installation



- ✔ Provides real-time information on battery status and power consumption.
- ✔ 6 m cable for easy installation anywhere in the cabin.
- ✔ Remote control
- ✔ Instant warning in the event of a fault.



	Power	Peak	Efficiency optimal	DC input	AC output	 Eyelets	 Socket(s)	 USB Port(s)
PSW 600 W RC-12 067332	600 W	1200 W	90%	12 V	230 V	✓	1	1
PSW 1000 W RC-12 067356	1000 W	2000 W	90%	12 V	230 V	✓	2	2
PSW 1500 W RC-12 067370	1500 W	3000 W	90%	12 V	230 V	✓	2	2
PSW 2000 W RC-12 067394	2000 W	4000 W	80 %	12 V	230 V	✓	2	2
PSW 2002W RC-24 067417	2000 W	4000 W	90%	24 V	230 V	✓	2	2



	 PSW601W	 PSW 1002W	 PSW 1502W	 PSW 2002W* 12 V or 24 V	Time it will run on a 70 Ah battery	Time it will run on a 200 Ah battery
Domestic appliances	Microwave	700 - 1000 W			30 - 50 min	1 h 30 - 2 h
	Toaster	800 - 1500 W			20 - 40 min	1 h - 2 h
	Fridge (40 L)	45 W			12 h	35 h
	Kettle	700 - 2500 W			15 - 45 min	35 min - 2 h
	Capsule/ pod coffee maker	1000 - 1600 W			20 - 30 min	1 h - 1 h 30
	Filter coffee maker	800 - 1200 W			25 - 40 min	1 h 30 - 2 h
Electronics	Telephone	5 - 10 W			55 - 110 h	155 - 310 h
	Laptop computer	60 - 95 W			5 - 9 h	16 - 28 h
	Radio	10 - 40 W			14 - 55 h	40 - 155 h
	TV 15"	40 W			13 h 30	39 h
	TV 21"	50 W			11 h	31 h
	Games console	39 - 100 W			5 - 13 h	16 - 39 h
Comfort	Camera	4 - 19 W			25 - 135 h	78 - 390 h
	Lighting				5 h 30	16 h
	Electric heater	1800 - 2500 W			12 - 20 min	35 - 45 min
	Fan	50 W			11 h	31 h
Boating	Hair dryer	1000 - 2000 W			15 - 30 min	45 min - 1 h 30
	Navigation lights	24 W			30 h	80 h
	Radar	24 W			30 h	80 h
	Autopilot	60 W			9 h	30 h
	GPS	6 W			110 h	310 h

POWERPACK

520 / 1300 / 1500

The essential power bank to keep you going on any journey!

Powerpacks combine a high-performance LiFePO4 battery with comprehensive connectivity to power all your devices, from smartphones to professional equipment. Designed to operate in demanding environments, they combine toughness and practicality, with maximum safety. Backed up by high-efficiency solar panels, or an external battery to double the runtime, they provide a reliable, long-lasting source of power when you're enjoying the great outdoors.



Outstanding power and range

Fitted with LiFePO4 lithium batteries ranging from 518 to 1408 Wh, they can power a wide range of appliances up to 2200 W (depending on the model). They are ideal for camping, remote locations, or leisure vehicles.



Ultra-fast, solar-powered charging

The advanced technology of the Powerpack 14.15 FC means it can be fully recharged from the mains in just 1 hour. A solar-powered alternative that guarantees self-sufficient charging is also available on all models.



Complete connectivity for all your devices

The Powerpacks have multiple outputs: 230 V AC sockets, standard and Quick Charge USB ports, USB-C ports, 12 V outputs, and even a cigarette lighter socket for compatibility with as many devices as possible.



Integrated battery booster

In the event of a breakdown, the Powerpack 14.22 and 14.15 FC are capable of starting a 12 V vehicle (lead and lithium batteries) in a matter of seconds. An effective emergency solution for remote locations.



Designed for life on the go

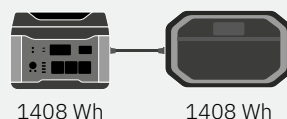
Compact and sturdy, with carrying handles, they feature an LCD screen to monitor charge and usage, plus LED lighting for when you're camping or backpacking.

+ Double your independence

compatible with POWERPACK 14.15 FC only



Power Batt 14
External battery
085213



2816 Wh
operating time x 2

+ Make the most of solar energy



Recharge your units
using solar power

Charging time from 0 to 100% (depending on weather conditions)	
520	8 h 30 - 11 h 30
14.22	13 h - 15 h
14.15 FC	6 h - 8 h



Usage duration

	10 W	45 W	50 W	100 W	250 W	1000 W	1500 W	2000 W
POWER PACK 520	40 h	9 h	8 h	4 h	1 h 40 min	—	—	—
POWER PACK 14.22	112 h	25 h	22 h	11 h	4 h 30	1 h 05	1 h 05	30 min
POWER PACK 14.15 FC	112 h	25 h	22 h	11 h	4 h 30	1 h 05	1 h 05	—



POWERPACK 520
ref. 027961



POWERPACK 14.22
ref. 085206



POWERPACK 14.15 FC
ref. 085169

Capacity battery	20 Ah 518 Wh	55 Ah 1408 Wh	55 Ah 1408 Wh
Technology	LiPo	LFP	LFP
Minimum charge time	6 h 30	7 h 30	1 h
Max power output	500 W (750 W peak)	2200 W (4400 W peak)	1500 W (3000 W peak)
Size	26.4 × 23.4 × 16.3 cm	36 × 27 × 28 cm	36 × 27 × 28 cm
Weight	5.14 kg	17.1 kg	19.3 kg



PANELS

SOLAR

An unlimited supply of power

Designed to help generate power when travelling to locations away from the mains, these two solar panels feature a high-performance monocrystalline structure that offers exceptional efficiency. On the surface, the ETFE coating provides increased resistance to impacts as well as salty environments. Foldable and portable, these panels provide clean energy anywhere.

- +

EXTEND THE OPERATING RANGE OF POWERPACKS
- +

ELECTRICAL SYSTEM OF A LEISURE VEHICLE

	Cell type	Cells in series	DC solar output					Auxiliary DC outputs			Solar controller	IP class	Dimensions		Weight
			Maximum power P _{MPP} *	U _{MPP} *	I _{MPP} *	U _{oc} *	I _{sc} *	USB-A	USB-A (QC 0.3 - 20 W)	USB-C (PD 18 W)			Folded	Unfolded	
079410	Monocrystalline	36	100 W	19.8 V	5.1 A	24 V	5.5 A	5 V - 3 A	5 V - 3 A	9 V - 2 A 12 V - 1.5 A	not included	IP 65	52 x 59 cm	118 x 52 cm	3.6 kg
079403	Monocrystalline	42x4	220 W	48 V	4.58 A	57.6 V	4.81 A	—	—	—	not included	IP 67	64.5 x 59.4 cm	243 x 59.4 cm	8.8 kg

*values at 25°C / 1000 W/m².

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Monocrystalline solar panel ETFE / Jack / 18V-100W

ref. 079410

Compatibility: POWERPACK 520 - 14.22 / ENERGYS DC/DC 50.12/24

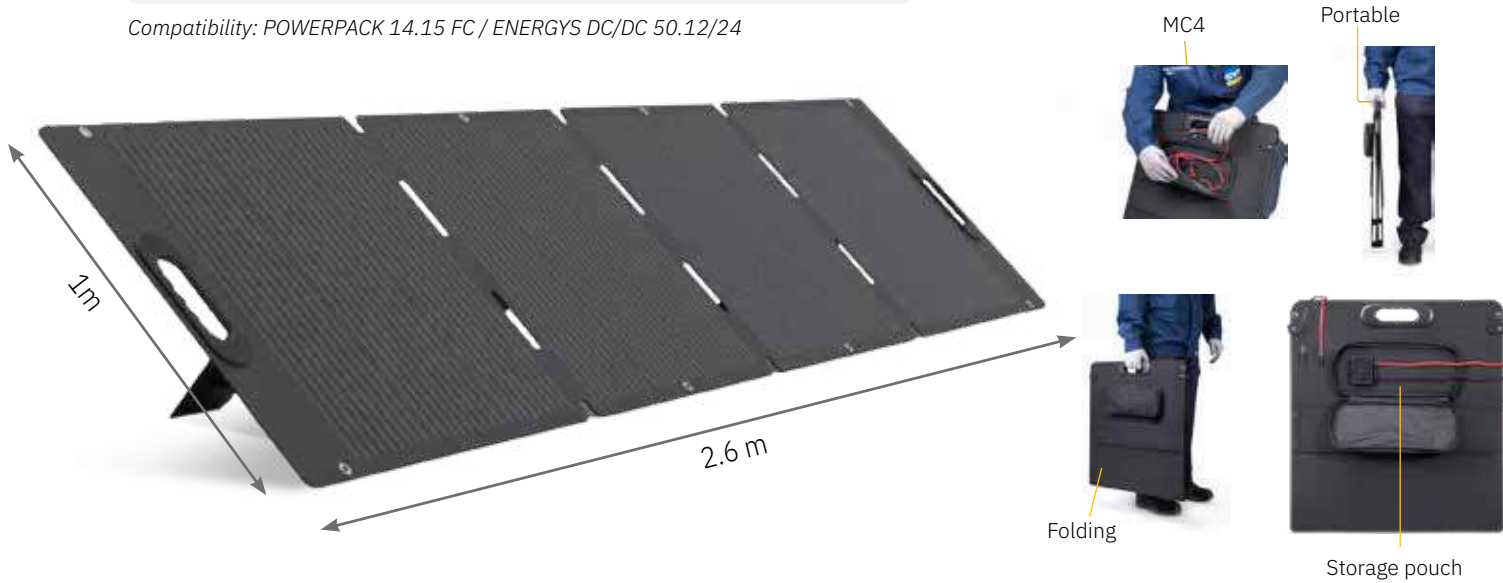


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Monocrystalline solar panel ETFE / MC4 / 48V-220W

ref. 079403

Compatibility: POWERPACK 14.15 FC / ENERGYS DC/DC 50.12/24



A range of applications applicable to multiple vehicles

The range of GYS products for leisure vehicles, including the Gysflash PL-E, the Energys DC/DC and the accessories presented, is designed to cater to the specific needs of all two-battery electric systems. It applies to a wide range of vehicles: from passenger cars, to HGVs and buses, right through to yachts.



Leisure vehicles:
camper vans / converted caravans



Recreational boating



Refrigerated vehicles



Food Truck /
Catering vans



Military and defence vehicles



Emergency and service vehicles



HGVs / Buses



Fuel tankers



INVEST IN THE FUTURE



Made in France
since 1964



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