LMREA
Safe equipment. Smart mobility.

JERRICAN

USER MANUAL

CONTENTS

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OVERVIEW

The system comprises a control unit and one or two removable battery packs. The Jerrican automatically selects which battery unit to discharge, depending on its state of charge and the power required. It can operate with a single battery unit. A battery unit can therefore be connected or disconnected at any time, while keeping the system fully operational.

REMOVABLE BATTERY

INTERFACE

Each battery unit has a display so you can check its status.

State of charge:

When the pack is connected to the control unit, the state of charge is displayed continuously.

With the pack on its own, not connected to the control unit, the state of charge appears after a brief press of the centre button. The display switches off after a few seconds.

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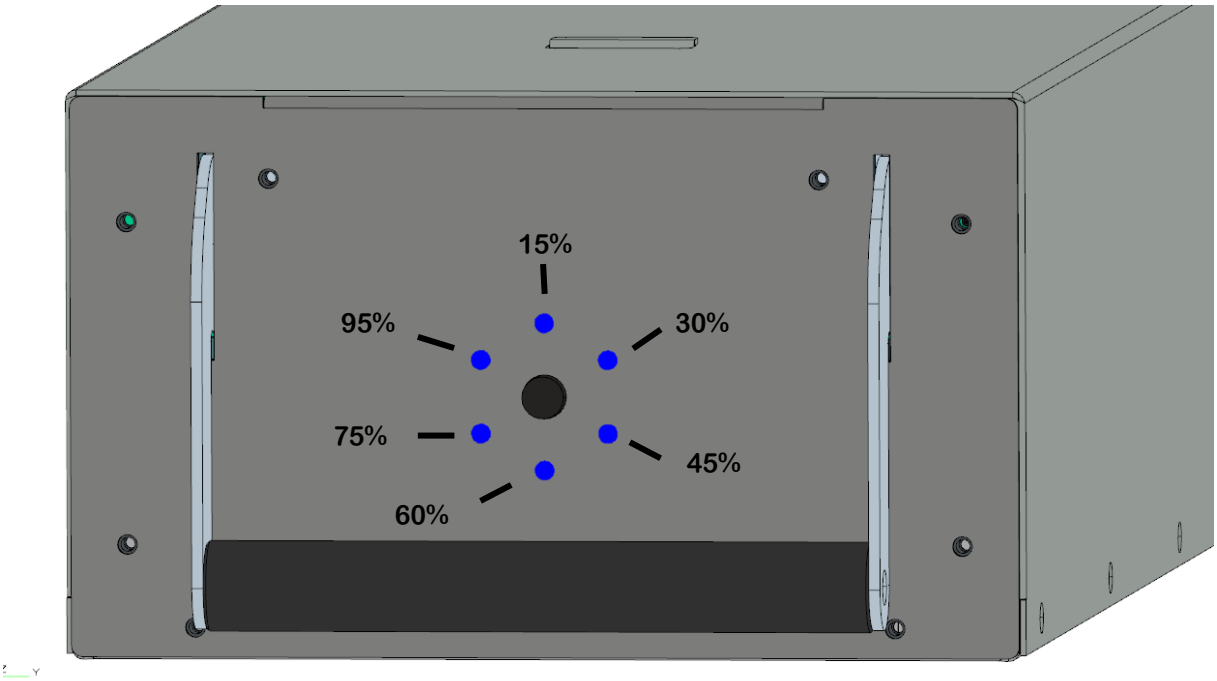

Charging in progress:

When the battery pack is charging, an animation is displayed.

Pack use by the control module:

When a battery pack is selected and being discharged by the control module, the LEDs on that pack light up more brightly.

Pack currently connecting:

When a battery pack has just been inserted, the indicator lights on that pack flash rapidly.

RECHARGING

The battery unit must be recharged using a mains power lead. A full recharge takes 6h. The battery pack can be recharged while it is connected to and being used by the control unit.

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Note: depending on the conditions (initial state of charge, temperature), charging time may vary.

Warning: do not store your battery pack when empty, as this may damage it.

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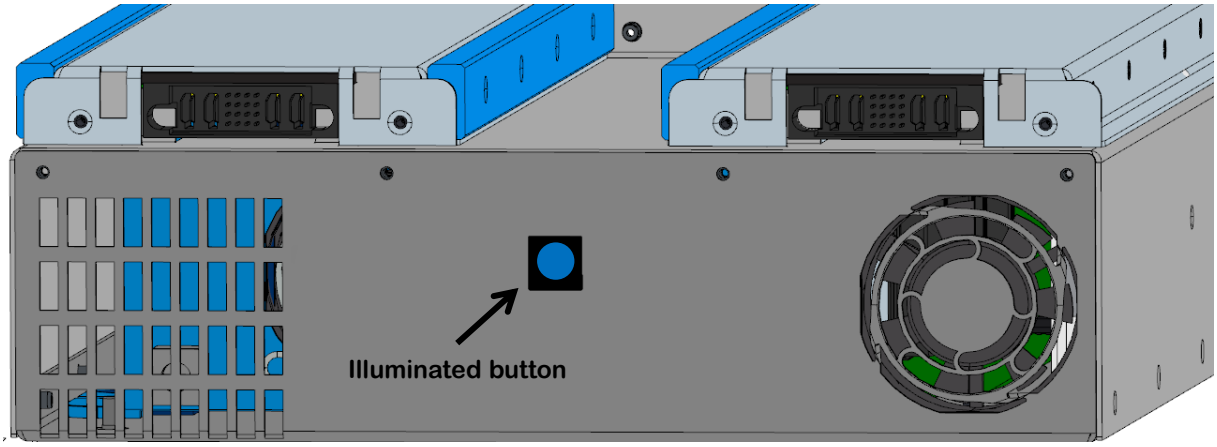
CONTROL UNIT

INDICATOR LIGHT



Indicator status	
OFF	System switched off
Slow flashing blue	System operating
Fast flashing blue	System not ready or fault present. Refer to the troubleshooting guide

POWER ON/OFF

Press the illuminated button briefly to start the system. Once it's running, press and hold the button (>3 seconds) to switch the system off.

Note: the fan runs for 5 seconds on start-up.

Note: the 1500W inverter version requires two 500Wh battery packs to be connected to deliver full power. If one battery pack is not connected, the output power will be reduced accordingly.

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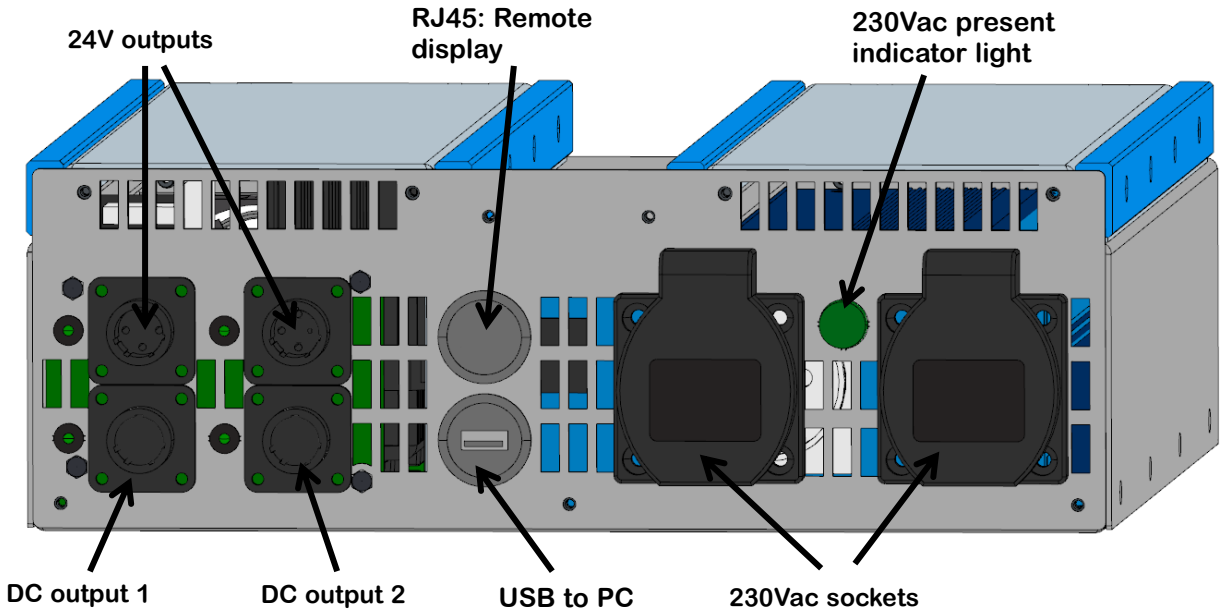
CONNECTION



- The 24V outputs are supplied directly from the batteries. The voltage varies with the batteries' state of charge (from 23 to 29V). An indicator light next to each socket illuminates when the output is enabled.
- The RJ45 connector allows you to connect a remote digital display, sold separately. Do not connect anything other than this accessory. This socket is not intended for use with a computer network cable.
- The 230Vac sockets are optional and are fitted on inverter models.
- You can connect your Jerrican to a PC using a standard USB mini□B cable. See the USB section for further details. 6
- The DC outputs supply power via a DC/DC converter. The voltages can be customised (stabilised 5V/12V/19V/24V): please contact us. If no converter is fitted, these 2 outputs are inactive. An indicator light next to each socket illuminates when voltage is present.

OPERATION

Depending on the power required by the connected devices and the state of charge of each battery pack, the control module automatically selects the best power-supply configuration (switching from one pack to the other, or using both packs at the same time).
A battery pack can be removed at any time, even if it has been selected and discharged by the control module. The Jerrican will immediately switch over to the other pack.

Note: the fan may start running at any time, depending on the power being drawn and the internal temperature of the control cabinet.

POWER LIMITATION

Depending on how many battery enclosures are connected to the system, and their capacity, the available power is limited.

		Continuous output power available			
		24V output	230VAC output		
Enclosure battery			Inverter power		
No.	Capacity		350 W	600 W	1500 W
1	250 Wh	240 W	240 W	240 W	240 W
2	250 Wh	480 W	350 W	480 W	480 W
1	500 Wh	480 W	350 W	480 W	480 W
2	500 Wh	960W	350 W	600 W	960W

With a unit fitted with a 1500W inverter, you can draw up to 1440W continuously for a maximum of 1 minute.

USB

Once connected to a PC, the Jerrican behaves like a battery (UPS). The computer will then display an indicator in the taskbar. The charge level shown depends on the remaining energy in the packs connected to the control module. Windows includes the drivers required for operation; no software needs to be installed.

This feature is available only when the Jerrican is operating.

Note: works with Windows® XP/7/8.1/10.

DC CONVERTERS

You can add a voltage converter supplied by us. This will enable the DC1 or DC2 output. A converter must be fitted by an authorised person or by Tecsup. The Jerrican must be powered off (battery packs removed).

Remove the 4 screws:

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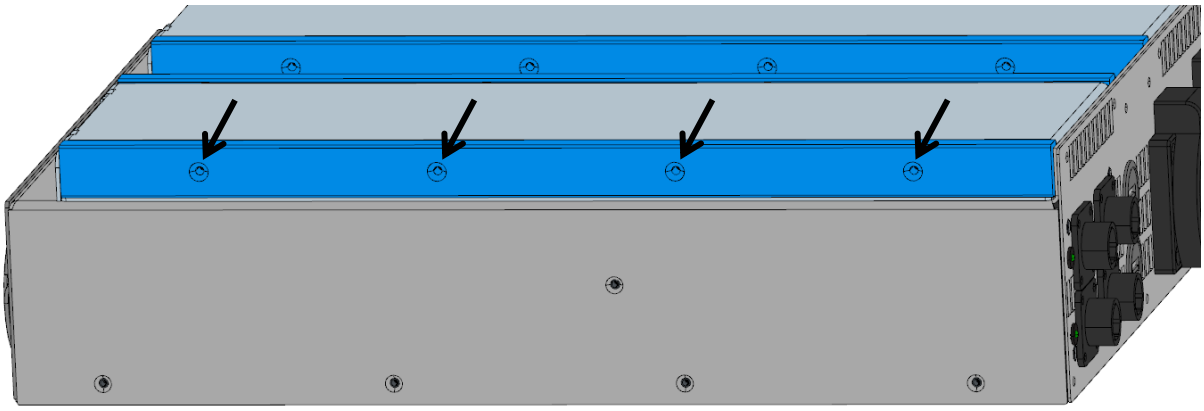
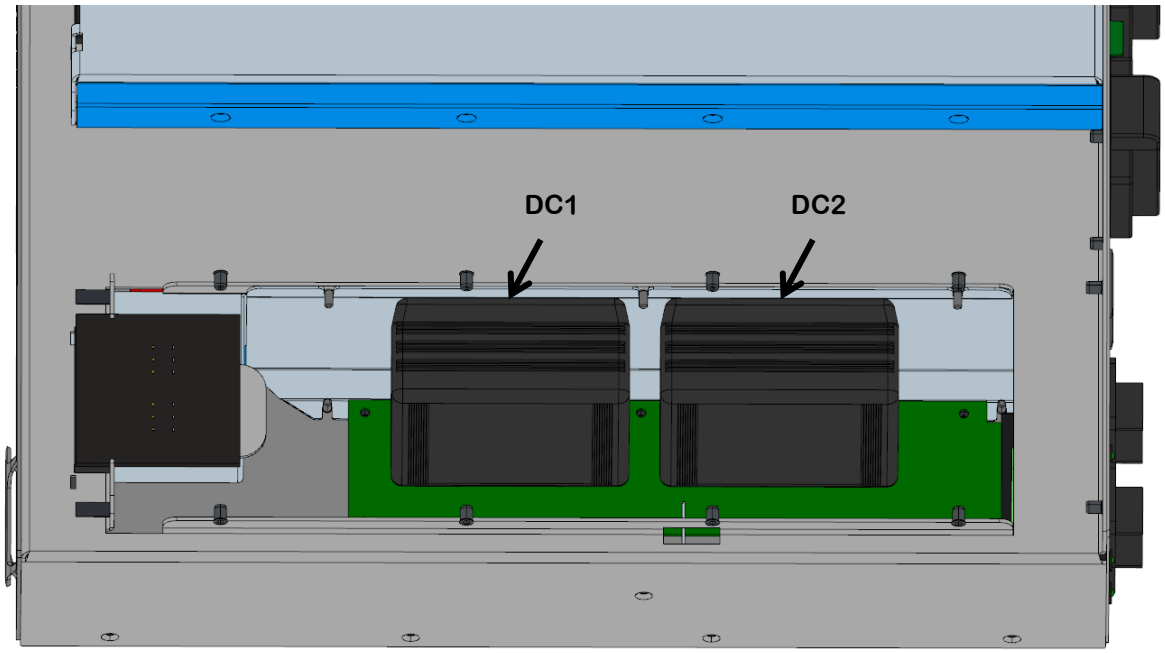


Remove the cover:



You can then access the inside of the control box and add 1 or 2 converters, as shown in the illustration.

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HELP IF YOU HAVE A PROBLEM

Problem	Possible cause	Solutions
The battery pack won't charge	The pack is currently in use	To allow the battery pack to recharge, power draw must be below 90 W (for a 500 Wh pack).
	The battery pack is in deep discharge	Leave the pack plugged into the mains for 48 hours.
	The temperature is too high. The battery is nearly fully charged.	Let the pack cool down. In some cases, the final stage of charging takes longer. Leave the battery plugged in for a few more hours.
The control module indicator light flashes rapidly	The temperature is too high	Let the unit cool down.
	The control unit is overloaded	Check that the power draw of your equipment does not exceed the Jerrican's specifications.
The control module indicator light stays off	Battery flat	Check that the battery pack(s) are sufficiently charged.
	Short circuit on a DC output	Check your equipment.
	The control unit is overloaded	Check that the power draw of your equipment does not exceed the Jerrican's specifications.

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TECHNICAL SPECIFICATIONS

REMOVABLE BATTERY

Reference	CLRTEC1LW000R100	CLRTEC1LW000R200
Rated capacity	250 Wh	500 Wh
Battery technology	LiFePo4	
Output voltage range	23V – 29V	
Max. continuous output current	15A	30A
Input voltage (charging)	230 Vac	
Input current (charging)	0.5A	
Weight	6 kg	
Dimensions (L x W x H)	476 x 170 x 100 mm	
Operating temperature	0 -> +40°C	
Storage temperature	-20 -> +60°C	

CONTROL MODULE

Reference	CLCTEC4LW000x000	CLCTEC4LW035x000	CLCTEC4LW060x000	CLCTEC4LW150x000
DC 24V output voltage range	23 – 29V			
Max. current on a single DC 24V output	10A			
Max. current on a single DC output 1 or 2	Depending on the selected converter (purchased separately)			
Maximum current across all DC outputs	25A			
Maximum power for 230Vac outputs	N/A	350W	600W	1500W
Weight	7.3 kg	8.6 kg	9.3 kg	12.3 kg
Dimensions (L x W x H)	422 x 292 x 109 mm		498.5 x 342 x 129 mm	538 x 387 x 129 mm
Temperature in use	0 -> +40°C			
Storage temperature	-20 -> +60°C			

A = DC output connectors, AMP type
B = DC output connectors, banana type

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