



LMREA

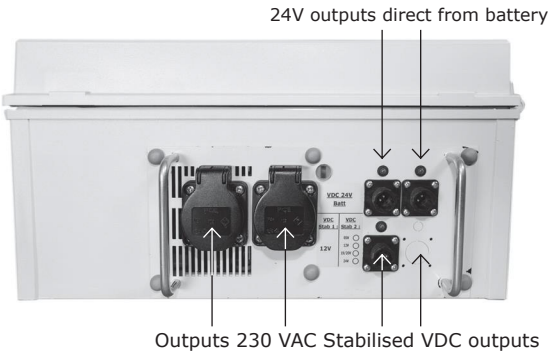
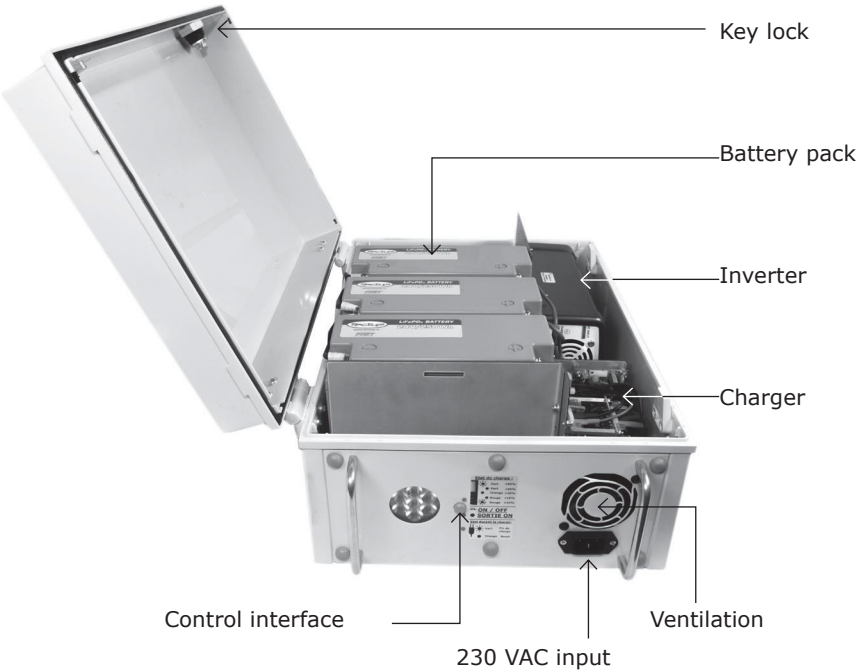
Safe equipment. Smart mobility.

Autonomous Power Unit

500 - 750 - 1000 Wh

**USER GUIDE USER
MANUAL**

80300179-D



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1/General overview

The CLA (Lithium Self-contained unit, with a Lithium LiFeP04 battery pack) and CPA (Lead Self-contained unit, with a lead-acid battery pack) provide autonomous electrical power for equipment installed on a mobile control desk.

Designed with a secure modular architecture, they operate fully automatically. Quick and easy to install and use, they include the dedicated monitoring and control functions required for your applications.

Strictly following the instructions set out in this manual will help you get the very best out of your CLA / CPA.

The CLA / CPA range comprises a wide selection of models, each with its own specific features.

- Technology: lithium or lead-acid
- Battery capacities (lithium or lead-acid): 250Wh, 500Wh, 750Wh, 1000Wh
- Output voltages:
 - 12 or 24 VDC (unregulated).
 - 5, 12, 15, 19, 24 VDC regulated (other voltages available on request).
 - 230 VAC pure sine wave, continuous power of 350 or 500W (600W inverter) or 700W (1500W inverter).

This manual applies to CLA units with a capacity of 500 Wh, 750 Wh or 1000 Wh and to CPA units with a capacity of 500 Wh and 750 Wh.

For any sale or placing on the market, or commissioning in a Scandinavian country (Denmark, Finland, Sweden, Norway), an label bearing the marking shown below must be added in the location indicated by the illustration below. This label is available on request from LMREA.

Label marking:

- Sweden: Apparaten skall anslutas till jordat uttag.
- Finland: Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan.
- Denmark: Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord.
- Norway: Apparatet må tilkoples jordet stikkontakt



2 / Specifications

2.1 General specifications

	500 Wh	750 Wh	1000 Wh
Ref. of the enclosure	CxAxxx3xWxxx2	CxAxxx3xWxxx300	CxAxxx3xWxxx400
Mains input supply		230 VAC, 50 Hz	
Weight	See next page		
Batteries Lithium LiFeP04	2 x 24V/10Ah	3 x 24V/10Ah	4 x 24V/10Ah
Battery Lead-acid	2 x 12V/28Ah	2 x 12V/40Ah	N/A
Charging time max.	Lithium battery: 5h Lead-acid battery: 8h		
Converter	Available separately: 5V/12V/19V/24V		
Temperature Operating	-10°C / +40°C  Charge the CLA only at above-zero temperatures.		
Temperature Storage temperature	-20°C / +50°C		
IP	IP20		
IK	IK02		
CE standard	EN61439		

2.2 CLA Specifications

CLA					VDC outputs				Outputs 230 VAC		
Ref.	Weight	Dimension	Capacity usable	Capacity rated	24V battery	5, 12, 19, 24 Stabilised VDC	Plugs Banana plug	Connectors AMP	350W	600W	1500W
CL A TEC 3LW 000 B200	11	W 300 mm L 400 mm H 180 mm	500 Wh	24 V/20 Ah 1,000 cycles	2	1*	x				
CL A TEC 3LW 000 A2 00					2	1*		x			
CL A TEC 3LW 035 B200	12				2	1*	x		2		
CL A TEC 3LW 035 A2 00					2	1*		x	2		
CL A TEC 3LW 000 B300	14	W 300 mm L 400 mm H 180 mm	750 Wh	24 V/30 Ah 1,000 cycles	2	1*	x				
CL A TEC 3LW 000 A3 00					2	1*		x			
CL A TEC 3LW 035 B300	16				2	1*	x		2		
CL A TEC 3LW 035 A3 00					2	1*		x	2		
CL A TEC 3LW 060 B300	17				2	1*	x			2	
CL A TEC 3LW 060 A3 00					2	1*		x		2	
CL A TEC 3LW 000 B400	19	L 400 mm L 500 mm H 180 mm	1 000Wh	24V/40Ah 1,000 cycles	2	1*	x				
CL A TEC 3LW 000 A4 00					2	1*		x			
CL A TEC 3LW 035 B400	21				2	1*	x		2		
CL A TEC 3LW 035 A4 00					2	1*		x	2		
CL A TEC 3LW 060 B400	22				2	1*	x			2	
CL A TEC 3LW 060 A4 00					2	1*		x		2	
CL A TEC 3LW 150 B400	24				2	1*	x				2
CL A TEC 3LW 150 A4					2	1*		x			2

*The output is pre-wired ; it requires the addition of a converter.

2.3 CPA Specifications

CPA					DC outputs				Outputs 230 VAC		
Ref.	Weight (kg)	Dimension	Capacity usable	Capacity rated	24V battery	5, 12, 19, 24 stabilised DC	Plugs Banana	Connectors AMP	350W	600W	1500W
CPA TEC 3MW 000B280	23	I 300 mm L 400 mm H 180 mm	500Wh	24V/28Ah 300 cycles	2	1*	x				
CPA TEC 3MW 000A280					2	1*		x			
CPA TEC 3MW 035B280	25				2	1*	x		2		
CPA TEC 3MW 035A280					2	1*		x	2		
CPA TEC 3MW 000B400	34	W 400 mm L 500 mm H 180 mm	750Wh	24V/40Ah 300 cycles	2	1*	x				
CPA TEC 3MW 000A400					2	1*		x			
CPA TEC 3MW 035B400	21				2	1*	x		2		
CPA TEC 3MW 035A400					2	1*		x	2		
CPA TEC 3MW 060B400	22				2	1*	x			2	
CPA TEC 3MW 060A400					2	1*		x		2	
CPA TEC 3MW 150B400	24				2	1*	x				2
CPA TEC 3MW 150A400					2	1*		x			2

*The output is pre-wired and requires the addition of a converter.

2.4 Electrical safety

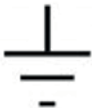
Explanation of the pictograms shown on the product:



ELECTRICAL HAZARD:

WARNING: RISK OF ELECTRIC SHOCK OR ELECTROCUTION WHEN OPENING THE ENCLOSURE: ANYONE OPENING THE ENCLOSURE IS HEREBY INFORMED OF THE RISKS: OPENING THEREFORE REQUIRES SAFETY PROCEDURES (disconnecting the product, switching off the product, identifying the hazardous voltage area,

checking safety conditions: earthing, VAT...)



MAIN EARTH CONNECTION:

BEFORE OPENING THE ENCLOSURE, MAKE SURE YOU LOCATE AND CHECK THAT THE CONNECTION IS PRESENT. IF NECESSARY, CONNECT THIS EARTH POINT TO A KNOWN COMPLIANT EARTH.

Rated insulation voltage (Ui)	250V
Rated impulse withstand voltage (Uimp)	2.5 kV
Rated currents by circuit	Mains sockets (total across both sockets): 1.5A
	Red banana plug: 15A total (fuse)
	Green banana plug: 6A (protected DC/DC)
	Yellow banana plug: 6A (protected DC/DC)
Rated permissible peak current (Ipk)	Mains sockets (total across both sockets): 1.5A
	Red banana plug: 15A total (fuse)
	Green banana plug: 15A
	Yellow banana plug: 15A
Rated short-time current withstand (Icw) Or rated conditional short-circuit current (Icc) (Icc)	Mains input sockets: 3kA
Pollution degree	3
Earthing system type	TT
Installation indoors and/or outdoors	Indoors
EMC classification	Directive 2004/108/EC
Electrical safety	Directive 2006/95/EC

3 / Installation

Before carrying out any work, make sure the enclosure is not connected to the mains supply.

3.1 Installation guidelines

- The enclosure must be secured to the trolley / control panel so that it cannot move.
- The on/off switch and the 230 VAC input must remain accessible.
- The ventilation grilles must be kept clear to ensure effective airflow, and protected from impacts above IK02.

- Ensure that the connectors are not under strain.

The 230V charging plug must be accessible so that:

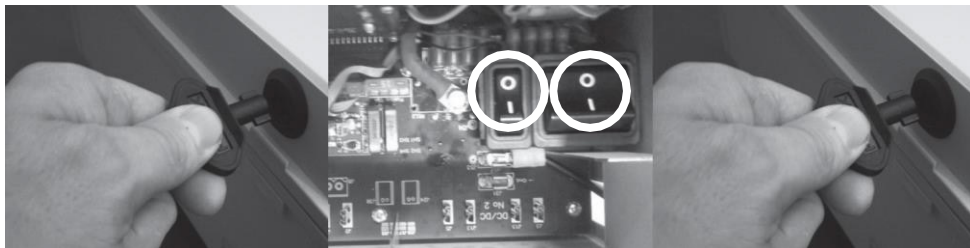
- you can recharge the enclosure.
- you can isolate the enclosure power supply if necessary: isolation device.

The wall socket used to recharge the enclosure must be clearly visible and accessible.

3.2 Commissioning instructions

Warning: the enclosure contains low voltage (230V AC). B1 or H1 authorisation is required to commission the enclosure.

1 / Switch the internal commissioning switch



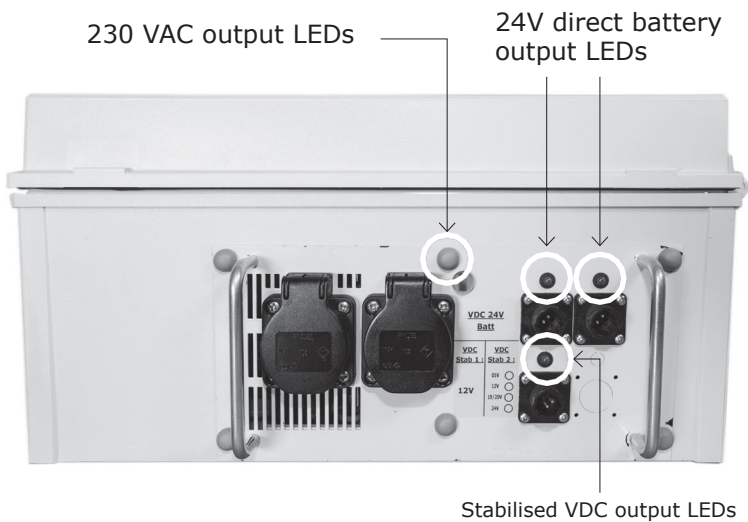
1 Open the enclosure using the special key supplied with the enclosure.

2.
Switch the internal switch(es) located on the PCB near the fuses.

3
Close the enclosure using the key.

Note:

- Depending on the model, this switch may be single or double.
- This switch is used to isolate the batteries from one another. Use it during commissioning, when transporting the unit (see #3.4), and during maintenance operations (see #6). Operating it while the unit is in use would cause the unit to lose its learned settings in relation to your usage profile.



2) Check the LED status for output power-on

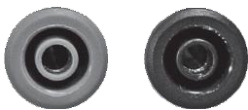
The LEDs associated with the output connectors show, for each output, whether voltage is available or not.

LED lit	Voltage available at the output.
LED off	No output voltage available at the output.

3) Connect the output connectors

Your enclosure is fitted with VDC output connections using either banana plug or AMP-type connectors. Depending on the model, the configuration and the installed converters may differ. One or more voltages are available to supply your electrical equipment at the corresponding rated voltages.

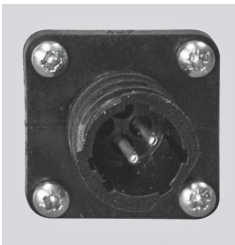
VDC outputs, banana connectors
(enclosure reference: CxAxxx3xWxxxBx00)



Banana connectors can be identified by a colour code. Make sure the colours match the selected voltages and polarities:

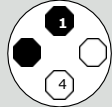
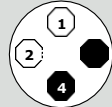
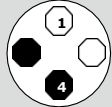
Output	Qty	Terminal -	Terminal +
Direct 24 V battery output or 12 V (depending on model)	2	Black	Red
Stabilised voltage output VDC Reg 1 (optional)	1*	Black	Green
Stabilised voltage output VDC Reg 2 (optional)	1*	Black	Yellow

* Requires an additional converter (see § 4.3 Converter installation).



VDC outputs, AMP connectors (enclosure
reference: : CxAxxx3xWxxxAx00)

AMP connectors are electrically keyed. For each output the + terminal is the one at the top of the connector.

Output	Qty	Diagram	Description
Direct output 24 V battery	2	 24 V output	Terminal + 24V : pin no. 1 Terminal - : pin no. 2
Stabilised voltage output VDC Stab 1 (optional)*	1	 12 V output	Terminal + 12V : pin no. 3 Terminal - : pin no. 4
Stabilised voltage output Stabilised DC voltage 2 (optional)*	1	 X V output	+ terminal x V: pin no. 2 Terminal - : pin no. 4

* Requires the addition of a converter (see §4.3 Converter installation). Cables for the different voltages are available from LMREA on request.

230 VAC outputs

Some models are fitted with 2 pure sine-wave 230 VAC outputs, intended to power your mains-operated equipment.

3.3 Converter installation (optional)

Warning, the enclosure contains low voltage (230V AC). A B1 or H1 authorisation is required to install the converter.

Before adding a converter, make sure that:

- the enclosure is not connected to the mains supply,
- the internal commissioning switch (on the electronic circuit board) is set to O.

- 1 / Open the case using the special key supplied with the case.
- 2 / Inside the case, two slots labelled VDC Stab 1 and VDC Stab 2 are positioned parallel to the side containing the outputs. Fit the converter into its slot by sliding it downwards with the label visible; it plugs into the lower board.

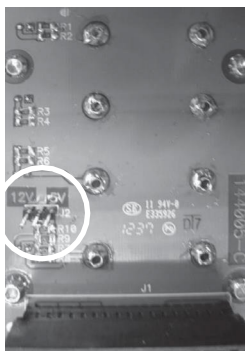
NOTE:

- for the VDC Stab 2 converter, the jumper (supplied in the bag containing the male output connectors) must be set to the position matching the converter voltage; see the photos below.
- no jumper is required for 19V / 20V voltages.

Jumper supplied



12V position (to be used with the 12V converter)



"Interface" board on the inside face

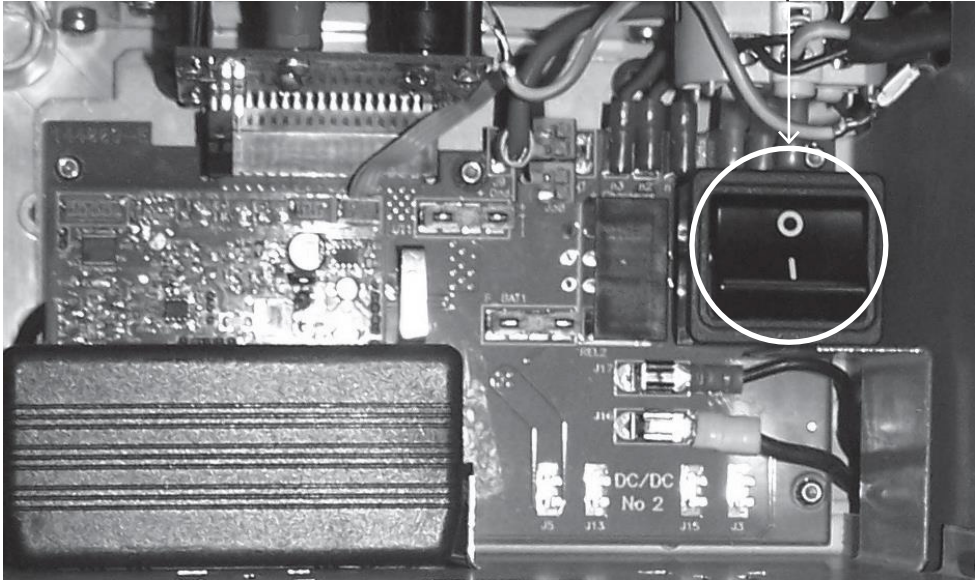


5V position (to be used with the 5V converter)

- 3 / Write the newly added voltage on the front.
- 4 / Close the case using the key.

3.4 Transport instructions

- **Before moving the unit, switch off the internal power switch in service on O.**



- If transporting a CLA enclosure, provide the carrier with the Materials and Safety Information Sheet No. 126 803. The transport procedure and the information sheet template are available from LMREA on request.

NOTE: Units containing Lithium batteries are subject to the dangerous goods transport regulations: UN classification: UN3481.

For further information, please refer to document Q11108, available on request from LMREA.

4. Operation

During use, no work inside the enclosure is required. No tools or special authorisation are needed to use it.

4.1 Connecting the enclosure to the mains supply

Preliminary notes

- The Unit must have been installed and commissioned in accordance with the instructions in the manual.
- It must be connected to the mains using the supplied 230 VAC mains lead.
- The 230 VAC supply feeding the power unit(s) must be protected upstream by a 30 mA RCD and by a circuit breaker or HPC fuse rated at a minimum of 10A and a maximum of 16A (in accordance with standard NFC 15-100).

Using the charger

- CLA Unit (lithium) The user may put the unit on charge at any time, even for a short period.
- CPA Unit (lead-acid) Recharging must be carried out when the unit is discharged and must continue until the batteries are fully charged. An incomplete recharge or charging batteries that are only partially discharged will reduce battery service life and will therefore invalidate the warranty.
- The charger remains operational as long as the mains lead remains plugged in. It can be left energised indefinitely with no risk to the components inside the unit. The batteries will remain in their optimum condition.
- The user can check the batteries' state of charge and the charger status using the Unit's control interface (see # 4.2)

Using the unit while the batteries are charging

- There is no reason not to use the Unit while it is charging. However, the battery pack charging time will be longer the higher the total power draw of the devices supplied by the Unit.

4.2 Control interface

The control interface is located on the front of the enclosure (the side with the ventilation grille and the charging socket).



Schematic	Name/function	Description
	Label	Indicates the status of charge of the battery. See
	LED Charge Status	
	User button	Switching the outputs ON/OFF does not stop the charging. See
	LED Mode	When the LED is lit, the outputs are active.
	LED Status	Provides information on: - charger status - ageing - faults. See

A / Charge status

The charge status is shown by a three-colour LED and the beacon. The beacon provides a high-intensity visual warning when the battery level becomes critical. Plan to recharge in good time to avoid the unit shutting down automatically and, as a result, the supply to the voltage outputs. The table below details the indications given by the LED and the beacon.

LED	green flashing	green fixe	amber fixe	red fixe	red flashing	red flashing	red flashing
Beacon						Flash slow	Flash fast
State of charge of the battery	> 95%	between 60 an 95%	between 30 to 59%	betwe 15 to 29%	between 10 to 14%	between 6 to 10%	< 5%
							

At the end of battery runtime, power is cut off automatically to help preserve the service life of the battery pack. The charge-status LED remains flashing red to indicate to the user that the batteries are empty.

B / User button and Mode LED

The ON/OFF user button allows you to switch all loads on the control panel on or off at the same time. Use it sensibly during short breaks to minimise the energy drawn from the battery.

The Mode LED lights up when the user button is in the ON position.

C / Status LED

During charging, the Status LED shows the charger’s current state as follows:

LED	orange	vert	vert clignotant
État du chargeur	Charge Boost (à haut régime)	Charge en floating (régulation de tension)	Charge complète
			

The Status LED also flags operating faults (see # 7) and indicates whether the battery is still under warranty or not (see # 8).

4.3 When the unit is not in use

- It is strongly recommended to keep the 230 VAC mains lead permanently connected during standby periods, to prevent any risk of the batteries becoming deeply discharged. This ensures your unit is always ready for immediate use if required.
- After a long period out of use, it will be essential to carry out a full recharge cycle in order to release the safety interlocks.

5. Recommendations

Electrical hazards

Warning: the enclosure contains low voltage (230V AC). B1 or H1 authorisation is required for any work that involves opening the enclosure: commissioning, installing a converter, replacing the battery, changing a fuse...

The 230V charging plug must be accessible in order to:

- be able to recharge the enclosure.
- disconnect power to the enclosure if required: isolating device.

The wall socket used to recharge the unit must be clearly visible and easily accessible.

Chemical hazards (CLA – lithium LiFePO₄ battery)

Please refer to the Materials and Safety Information Sheet No. 126 803 (available on request from LMREA).

To reduce the risk of overheating, and in the worst case fire, from batteries Lithium LiFePO₄, please ensure you follow the instructions below:

- **do not crush.**
- **do not puncture.**
- **do not store near a strong source of heat.**
- **do not expose to flames.**
- **do not use in areas exposed to explosion risks.**
- **do not pour any liquid inside.**
- **do not connect to the output a cable other than the one supplied.**
- **follow the installation and operating instructions.**

Procedure to follow in the event of an incident

- Evacuate people from the area and take the appropriate initial first-aid measures.
- Skin contact: wash the skin with soapy water.
- Inhalation: breathe fresh air and call a doctor to assess the level of inhalation.
- Eye contact: rinse thoroughly with water for at least 15 minutes and consult a doctor.
- Ventilate until the fumes have dispersed.
- Use Class D fire extinguishers, inert-gas extinguishers (for example, a mixture of argon and nitrogen), CO₂, powder or foam extinguishers.
- Place the battery (or the complete product) in a suitable container: V0

6. Servicing and Maintenance

General information

- No specific maintenance is required, except for the following points:
- Please ensure the ventilation grille and the inside of the enclosure are cleaned to help prevent failures caused by overheating.
 - Do so whenever operating faults indicate it is necessary.

Battery replacement

CLA enclosure (lithium battery)

To replace the lithium battery pack in your enclosure, please return it to the LMREA workshops (see # 8 - After-sales service).

CPA enclosure (lead-acid battery)

The replacement of the lead-acid battery pack in your CPA may only be carried out by a person with the appropriate electrical authorisation for this task.

WARNING: batteries are live components. In the event of a short circuit, they can cause serious burns. During handling, it is recommended to remove necklaces, bracelets, watches, rings, or any other metal item that could conduct electricity.

Procedure:

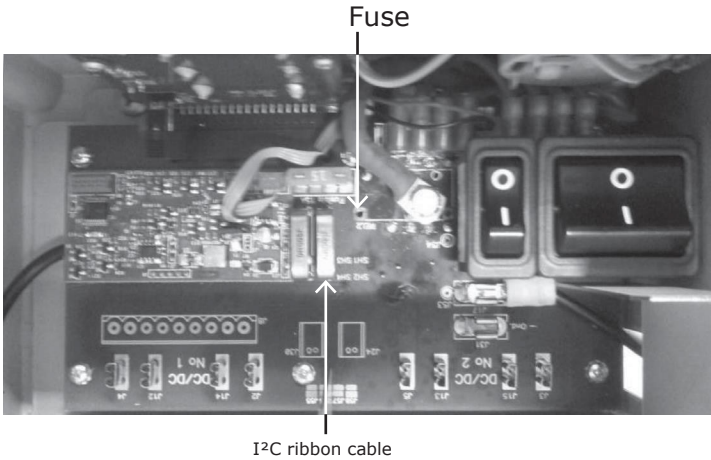
1	Open the case lid using the key
2	Switch the power-on switch
3	Disconnect and remove the strap by undoing the two nuts
4	Disconnect the battery cables
5	Replace the batteries with new ones in the same position
6	Reconnect the battery cables
7	Reposition and reconnect the strap
8	Switch on the commissioning switch
9	Carry out a full recharge.

7. Operating faults

7.1 Detected errors

The Status LED on the control interface, in red, indicates operating faults. Errors are represented by flashes over a 2-second period.

Frequency over a period of 2 seconds	Fault	Corrective action
1 flash	Blown fuse	Replace the fuse rated 15A/24V (reference RS : 787-4120) located on the lower board (inside the enclosure) : see photo below. Warning, the enclosure contains low voltage (230V AC). Electrical authorisation B1 or H1 is required.
2 flashes	Overvoltage electrical	Vérifier la consommation from connected devices. Press the user button to switch the enclosure
3 flashes	I ² C fault (internal communication)	Reconnect the ribbon cable to the lower board. Warning, the enclosure contains low voltage (230V AC). Electrical authorisation B1 or H1 is required.
4 flashes	Undervoltage electrical	Put the enclosure on charge and press the button user button to switch on the enclosure.



7.2 Other malfunctions

Insufficient runtime for the enclosure

Battery-pack capacity varies depending on the CLA / CPA enclosure model (see # 2 Specifications). Your enclosure was selected and/or sized based on the calculated power requirement and the intended operating time of the equipment to be supplied.

Diagnostics	Recommendations
Actual usage is significantly plus more energy-hungry than assumed in the initial estimates.	Resize the battery capacity Limit the operating time of connected loads.
The user does not follow the operating instructions for use: charging cycle not fully completed for lead-acid batteries (CPA), ventilation openings blocked, mains power cut...	
Everything is working correctly but the battery pack is outdated. A battery is a consumable item. Lead-acid batteries (CPA) are covered for 300 cycles or 1 year. Lithium batteries (CLA) are covered for 1,000 cycles or 3 years.	 Replace the battery (see # 6) Lithium battery (CLA): Return the unit to LMREA workshops to replace the battery pack.

One or more devices are not being powered by the unit

Diagnostics	Recommendations
The AR connector is damaged or there is a connection error.	Reconnect the device. Switch to another output (if possible). Replace the cable.
The power required by the load exceeds the power permitted by the electronic circuit board (during start-up phases typically).	        to the LMREA workshops.
The electronic board is faulty.	        to the LMREA workshops.

8. Warranty and After-Sales Service

CE Certification

The enclosures comply with the CE EN61439 standard.

Warranty

The manufacturer's warranty is 2 years, parts and labour included, and applies to all items that make up the power enclosure, except the battery pack.

CPA, lead-acid battery pack

The batteries are covered for 300 discharge/recharge cycles, or 1 year. Battery warranty period starts from the date corresponding to the date code marked on the batteries on the delivery date. This warranty is subject to use of the charger as described in this manual (see #4.1).

CLA, lithium LiFePO4 battery pack

The batteries are covered for 1000 discharge/recharge cycles, or 3 years.

Indicator

On the front panel, the lower Status LED indicates whether the guaranteed number of cycles has been exceeded or not.

After pressing the user ON/OFF button, the lower Status LED lights up as follows:

LED	Green	Red
Signification (CPA, lead-acid battery)	Cycles < 300 	Cycles > 300  no longer applies.
Signification (CLA, battery LiFePO4)	Cycles < 1000 	Cycles > 1000  no longer applies.

Excluded from the warranty:

- use outside the scope set out in the user manual
- mains overvoltage

DECLARATION C.E. DE CONFORMITE

Entreprse : LMREA
Adresse : 95 chemin des platieres - ZA des platieres
38670 Chasse Sur Rhone

Téléphone : +33 (0)4 78 02 8 93



DESCRIPTION DU PRODUIT

Nom : ARMOIRE CLA/CPA

Type: Coffret d'Energie Autonome

Modèles :

Système 100V				Système 230V				Système 230V			
Poids kg	Autonomie	Capacité kWh	Capacité kWh	12V 100Ah	24V 50Ah	12V 100Ah	24V 50Ah	12V 100Ah	24V 50Ah	12V 100Ah	24V 50Ah
6,8	1000h	1000h	1000h	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
11	1000h	1000h	1000h	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
14,2	1000h	1000h	1000h	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
14,6	1000h	1000h	1000h	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
17,2	1000h	1000h	1000h	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
14,2	1000h	1000h	1000h	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
14,6	1000h	1000h	1000h	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
14,6	1000h	1000h	1000h	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
14,6	1000h	1000h	1000h	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
14,6	1000h	1000h	1000h	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1

Les produits identifiés ci-dessus sont déclarés conforme aux dispositions de :
Le Directive du Conseil de l'Union Européenne du 3 mai 1989, concernant le rapprochement des législations des états membres relatives à la Compatibilité Electromagnétique (2004/108/CE)
La Directive du Conseil de l'Union Européenne du 19 février 1973 modifiée le 22 juillet 1993, concernant le rapprochement des législations des états membres relatives aux matériels électriques destinés à être employés dans certaines limites de tension (2006/95/CE)

Cette conformité est présumée par la référence aux spécifications suivantes :
NF EN 61439-1 Ensembles d'appareillage à basse tension

After-sales
service

If a fault requires the unit to be returned to LMREA workshops, the defective unit must be sent back to LMREA at the user's expense.

- For damage covered under the warranty, the device will be repaired and returned free of charge.
- For repairs outside the scope of the warranty, a repair quotation including return shipping costs will be provided to the customer. Please allow a typical lead time of around ten days once the customer has approved the quotation.

Delivery address: LMREA

95 Chemin des Platières – ZA des platières – 38670 Chasse sur Rhone

NOTE: Units containing Lithium batteries are subject to the dangerous goods transport regulations: UN classification: UN3481.

For further information, please refer to document Q11108, available on request from LMREA.

9. End of life

The unit at end of life must be returned to LMREA at the user's expense for analysis, dismantling and recycling.

If the unit has reached end of life because the battery has reached end of life, the battery may be replaced (see #6).

The battery warranty will apply again.

NOTE: Units containing Lithium batteries are subject to the regulations for transporting dangerous goods: UN classification UN3481.

For further information, please refer to document Q11108, available on request from LMREA.

Autonomo us Energy Pack

**500 - 750 -
1000 Wh**

To contact us: +33 (0)4 78 02 84 93



Safe equipment. Smart mobility.

95 Chemin des Platières - ZA des Platières – 38670 Chasse
Sur Rhone - FRANCE Tel: +33 (0)4 78 02 84 93 -
contact@lmrea.com - www.lmrea.com