

OPERATING & USERS MANUAL



All In One Series
Battery charger / Power cabinet

12V25A
230V : Code 399125

Dolphin[®]
charger

WARNING

This manual contains vital and essential information, in order to avoid electrical shocks, overcharging or irreversible damage to the material. The owner should read and understand this document before operating the charger.

This device is not intended for use by persons (including children) with physical, sensory or mental disability, or by persons lacking experience or knowledge, unless they have received from a person in charge of their safety adequate supervision or preliminary instructions on how to use the device. For any question, contact your dealer.

Installation

This charger must not be installed in a potentially explosive atmosphere.

Do not install the charger near a heat source.

Not only this charger, but also the batteries should not be installed in a hermetically sealed or poorly ventilated area.

Leave at least 10cm / 3inches clearance around the charger for proper ventilation.

Install the charger in a vertical position to create an optimal ventilation.

This charger must not be exposed to dripping, splashing water or dust of any kind.

The charger must be correctly and strongly fixed.

This device is not a toy and must be kept out of the reach of children.

WARNING

Connections

According to the model, the charger is set to be connected to a monophase network 230V 50Hz or 115V 60Hz (refer with technical specifications).

The installation to which the charger is connected must comply with the standards currently enforced in the country of use.

For safety reason, the green / yellow wire of the power cord must strictly be connected to the earth of the installation.

To prevent overheating, ensure the correct tightening of the connections.

Each battery access must be protected by a fuse positioned as close as possible to the positive terminal of the battery.

Output batteries must be connected to the charger before its power-on.

This device complies with enforced standards regarding emitted interferences and disturbances of external origin.

Regarding electromagnetic interferences, ensure that other materials used are compatible with this device in order to avoid irreversible damage.

WARNING

Serial number

The S/N is available on the grey label positioned on the side of the charger.

Choosing the charging curve

It is important to choose the correct charging curve, appropriate with the battery technology. An incorrect choice can cause irreversible damage.

In particular, risk of overheating and noxious gases in case of overvoltage to the battery.

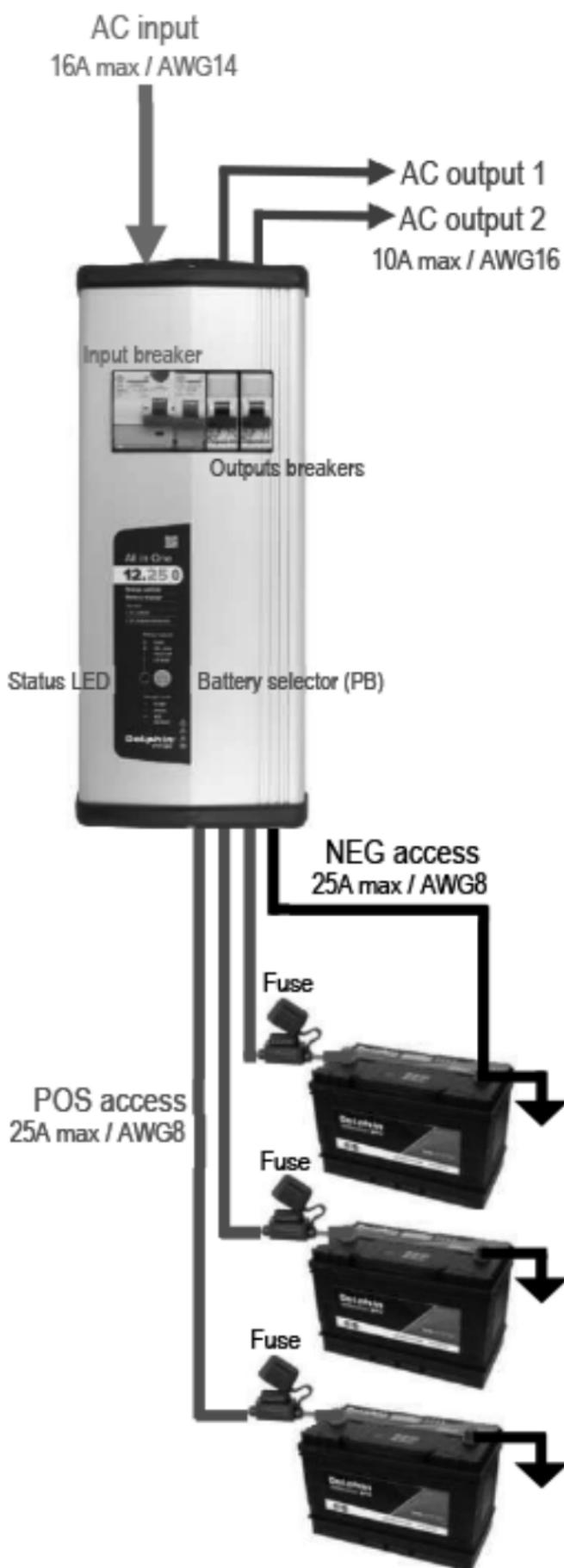
The LITHIUM cycle charge is only compatible with LiFePo4 batteries with integrated BMS (Battery Management System).

Please consult the battery manufacturer's recommendation.

Maintenance

This charger cannot be disassembled. Any maintenance is prohibited, except by an authorized technician.

CONNECTIONS



TECHNICAL SPECIFICATIONS

All In One 12V25A

AC input	
Voltage	230V (+/-10%)
Frequency	50/60 hz (+/-10%)
Consumption max	2A (charger) + 10A (AC outputs)
Protection	Breaker 16A 30mA
Battery charger	
Input voltage	115V/230V (+/-10%)
Power factor	> 0,9
Number of outputs	3
Cycle charge Boost / Float	Open Lead: 14,5V / 13,4V +/-2%
	AGM – Gel: 14,5V / 13,6V +/-2%
	Lead Calcium: 15,0V / 13,8V +/-2%
	Lithium: 14,5V +/-2%
Current / Power max	25A / 300W (+/-5%)
Protections	Short circuit, reverse polarity and overvoltage on outputs, temperature, general default by internal fuses
Front interface	LED and Push Button
AC outputs	
Number of outputs	2
Voltage & frequency	Refer to AC input
Max current	10A (total of the 2 outputs)
Protection	Breaker 10A
Generalities	
Operating t°	-10°C to +55°C
Storage t°	-20°C to +70°C
Humidity	10% to 90% (without condensation)
Ventilation	Natural
Casing	Anodized extruded aluminium
Mounting	Wall mounting (2 screws Ø 4mm)
Dimensions	5,59 x 3,23 x 15,00"

TECHNICAL SPECIFICATIONS

All In One 12V25A

Weight	5,3 lbs
Standards	EN55014, EN60335
Interfaces (connectors supplied)	
AC input	Type 770-713 (WINSTA), AWG14 max
AC outputs	Type 890-703 (WINSTA), AWG16 max
DC outputs	Type PC6-16/4-G1F-10,16 (PHOENIX) AWG6 max

OPERATING INSTRUCTIONS

Select the cycle charge



1. Power-on the charger connected to the batteries.
2. Note that during the power-on of the charger, the LED indicates for a few seconds the current cycle charge (refer to below color vs cycle).
3. Wait a few seconds and verify that the charger is correctly charging the batteries (NORMAL mode).
4. Press the push-button for 3 sec.
5. The charger enters the SETTING mode, and the LED is blinking.
6. Do not wait, and with the push-button, select the color of the LED, so the type of battery.

Led	Battery type
Green	Open Lead
Yellow	AGM - Gel
Red	Lead Calcium
Green / red	Lithium

7. After your choice, wait a few seconds, the charger returns automatically in NORMAL mode.
8. Preventively, verify the output charge voltage (Boost & Float phases).

OPERATING INSTRUCTIONS

Front display

Mode	LED	Status
ABS mode	Yellow	Batteries are charging. Time required to complete "Absorption" depends on the initial SOC of the batteries, but it is limited to 8hrs
EQUAL mode	Yellow blinking	Batteries are coming to the end of the cycle charge. Time required to complete "Equalization" depends on the initial SOC of the batteries and varies between 30mn to 4hrs
End of EQUAL mode	Green blinking	Batteries are almost charged. Floating mode will begin in less than 30mn
FLOAT mode	Green	Batteries are completely charged
OT default (Over Temperature)	Red slow blinking	Charger is stopped for a period of 30sec min. The restart is automatic once the defect has disappeared. >> Check the external ambient temperature.
RP default (Reverse Polarity)	Green / red blinking	Connection error on batteries side or internal battery fuse broken. The restart is manual after a power off / power on, once the defect has disappeared. >> Check all connections and the polarity of the batteries. >> Note that the internal battery fuse cannot be replaced.
OVO default (Output Over Voltage)	Red fast blinking	Charger is stopped for a period of 30sec. The restart is automatic once the defect has disappeared. >> Check the output voltage. In general, this default is irreversible.

OPERATING INSTRUCTIONS

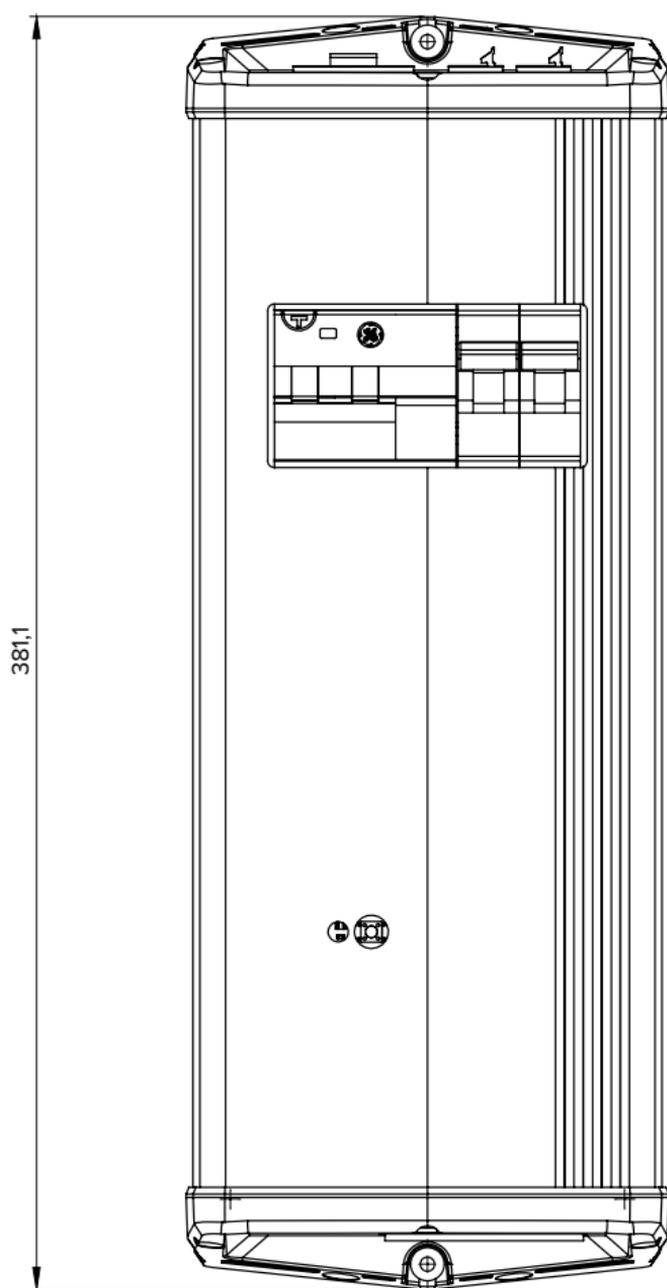


Dolphin Connect App

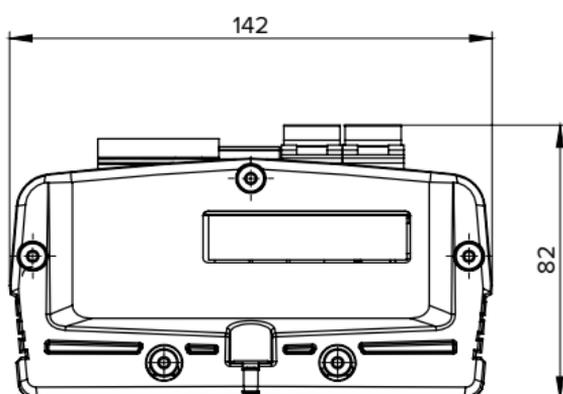


IMPORTANT: The PIN code giving access to the application is available on the grey S/N label, positioned on the side of the charger

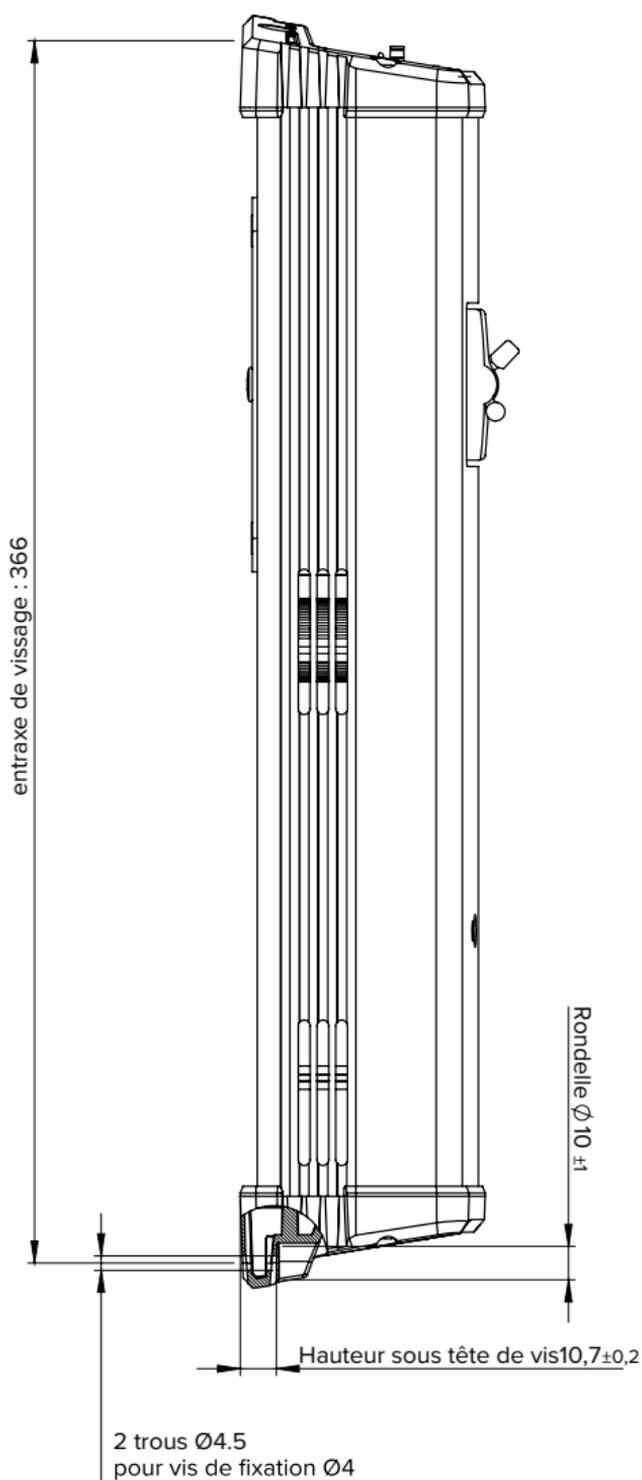
DIMENSIONS



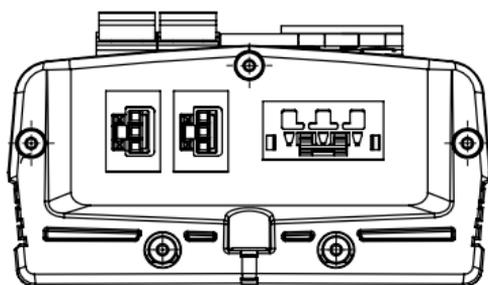
Bottom
view



DIMENSIONS



Top view



WARRANTY

In order to prevent all risks due to the incorrect use of the device, please read carefully the list of possible situations or faults not covered by the warranty.

Disassembly and/or modification of the casing resulting into the damage of the charger.

Disassembly and/or modification of the electronic power board resulting into the malfunction or the damage of the charger.

Mechanical shocks on the casing resulting into the damage of the charger.

Use of a non-appropriate main power supply (for example a generator with a too high voltage) resulting into the malfunction or the damage of the charger.

Over-voltage from the main or a lightning strike.
Battery in reverse polarity but connected “in live” to a charger in operation, resulting into a damage of the charger.

Obvious connections errors resulting into the malfunction or the damage of the charger.

Water to the interior of the device resulting the malfunction or the damage of the charger.

Cycle charge non appropriate with the technology of the battery, in particular when the charge voltage is too high, risk of overheating and noxious gases.

Use with LITHIUM batteries without integrated BMS.

WARRANTY

Disposal

This device contains electronic and mechanical components that must be recycled once the device is obsolete.

All electronic devices must be returned to a local distributor or to a specialized company for an environmentally friendly disposal.

CE conformity

This product conforms to current European standards and has a CE mark. Please contact us for the certificate of conformity.

Dolphin[®]
charger



contact@dolphin-charger.com
www.dolphin-charger.com