



## Charge regulator ACLR 3050 and 3050-D

Aero-Craft regulators are charging for 3-phase permanent magnet generators designed to

AC voltage. The generator changing voltage (three-phase) in the charge regulator rectified.

In addition, charging the battery management control (Controller control), depending on the each voltage level of the battery:

- Loading Management
- About charging protection by the generator brakes.
- Low-off by consumers
- Overload protection and Gasungs switching (for lead-acid batteries)

The ACLR 3050 - charge regulator is a basic version.

About the menu preferences must be set to the required nominal battery voltage

(12 / 24 / 48 volts), battery type (lead-acid / lead-acid), battery capacity (15 -> 50Ah)

and the number generator Pohl (2-32 poles).

Note: In the delivery status is actively running the brakes before the commissioning,

Manual brake the generator disabled.

(see menu basic setting)

Frequently, lead-acid batteries used when gel block batteries must be used in the

Setting according to gel set, so that the Gasungs control is not active.

When installed on an assembly possible in a dry area to be respected. The charge regulator

will be installed in wall mounting. A good ventilation of the back heatsink is important. At

Assembly in a control cabinet should be ventilated.

A backup is to install so that it is easily accessible. The distance between battery and

Charge regulator should as short as possible (battery cable length = 2m).

To the batteries against deep discharge to protect the charge regulator with a low

, which voltage consumer-Plus line separates from the battery. When you reach

the charging voltage is closing the generator by electric short circuit curbed. The connection

a heavy resistance is not required.

Caution: the generator used must be fixed short-circuit, this is in the Aero Craft

Generators the case.

Note:

When fully charged battery is the active short-circuit brake, the wind generator is also in strong

Wind then slowly rotate!



Operation: Menu

LCD menu:

- > Preferences
- > Battery
- > Voltage
- Selection of nominal battery voltage (12 / 24 / 48 V)
- > Type
- Selection of the battery type (lead-acid / lead-Gel)
- > Capacity
- Selection of battery capacity (15 -> 50 Ah)
- > Manual brake
- > Generator
- Selection of generator number of poles (2 - 32 poles)
- > Password
- Password for basic settings override
- > Clock / date \*
- Time / Date set for data loggers
- > Data logger \*
- Memory interval for data loggers set (1 second - 59 hours)
- > Language
- Select the menu language (English / German)
- > Contrast
- Display contrast select
- \*: Only on devices with data loggers feature
- Basic view:
- Out Consumer Power (W)
- Gen. Generator power (W)
- Generator overall performance (0.0 - 99.999,9 KW / h)
- > Information
- > Battery
- Select the battery voltage (0.0 - 60.0 V)
- Display of the battery power (0.0 - 50.0 A)
- > Generator
- > Voltage
- Select the generator voltage (0.0 - 60.0 V)
- Select the max. Generator-voltage (0.0 - 60.0 V)
- > Power
- Display of the electricity generator (0.0 - 50.0 A)
- Select the max. Electricity generator (0.0 - 50.0 A)
- > Performance
- Show the power generator (0 - 3000 W)
- Select the max. Power generator (0 - 3000 W)
- > Speed
- Select the generator speed (0 - 9999 rpm)
- Select the max. Generator speed (0 - 9999 rpm)
- > Operating hours
- Show the generator operating hours (0.0 - 99.999,9 hours)
- > max. Delete values
- Max generator. Delete values
  
- Time / Date \*
- Select the time
- Select the date
- > Consumer



Show the consumer-voltage (0.0 - 60.0 V)  
Display of consumer electricity (0.0 - 50.0 A)  
--> Temperatures  
Select the device temperature  
Select the battery temperature (if available)

### **Technical data (data at 20 ° C) charge regulator ACLR 3050**

12.0 volt system voltage 24.0 volts 48.0 volts

Final charging voltage \* 14.5 V 28.6, 58.0 V V

Gasungs control 16.5 V, 33.0 V 66.0 V

For gel batteries, the Gasungs control disabled!

Setting menu of leadership to gel battery note!

Max charging current: 60 A (10 min constant)

Rated charging current (permanent): 50 A

Max discharge: 30 A

Load Off \*): 11.5 V 19.8 V, 46.0 V

A load of 12.5 V, 25.0 V, 50.0 V

Metal housing for wall mounting: hxwxd: 95 x 210 x 250 mm

Following terminal: 16 mm <sup>2</sup> rigid, 10 mm <sup>2</sup> flexible

Weight: 3.6 kg

Protection: IP 30

Technical changes.