INSTRUCTIONS FOR USE

Inteligent battery charger AP-17 12V 20A Pb



Properties:

- Charger that can "listen" to the chemistry of the battery
- Fast, smooth and battery friendly charging
- Battery determines charging current by itself under supervision of microprocessor charging system
- No warming up effect, which reduces battery life at overcharge
- Regenerate cells majorly, when they were charged inproperly
- Long life of battery
- Ensures up to 110% level of battery default capacity
- Safe against short circuit
- Possible charging of starter battery
- Connector for attachment of outside led indicator
- Avtomatical detection of battery attachment (yellow led)
- Precise indicator of overcharging (green LED)
- Working temperature range from 0° to 35°C
- Charging is independent from oscilations in the supply voltage (PMW technology)

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1. CHARGING TECHNOLOGY DESCRIPTION

Electrode specific Charging System is new technology of battery charging. It presents a small revolution on this field, because the results in practice are fantastic. With this technology very fast and very precise charging is possible, because only electrochemical position of battery "dictates" to the charger way and current of charging, which is momentarily proper for the battery. Charging with high current is accomplished only in phases, when cells can accept energy, without warming up or giving off gas.

When charging with this technology is no giving off the gas from electrolyte, warming up or sulfatisation. All this processes disintegrates cells of acid battery, so extraordinary prolongation of battery life and shortening of charging time is achived.

Teoretically acid battery can be charged with 2,5 time higher current then default current is. This means that 100Ah battery can be charged in less then half of hour, if we can use current source of 250A. If starter battery is empty, it is possible to start the engine after aproximatlly 5 minutes.

We can say that charging technology works as transformer between battery chemistry and signals that commands the charge. Each battery is "treated" individually and from here the name "Electrode specific Charging System" is coming.

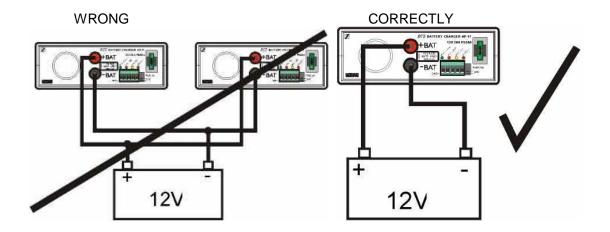
2. CHARGING INSTRUCTIONS

Accumulator battery charger is suitable for charging only12V acid batteries from alltogether capacity of min. 20 Ah. Max. capacity of charged battery in not limited.

- 2.1 Classical way of connection of charger AP-17
- A. For connection to the battery polls (connections) use 4 mm² wire for distances to 1 m, 6 mm² wire for distances to 2 m, 10 mm² wire for distances to 4 m and 16 mm² wire for longer distances.
- B. RED to the + connection of the battery.
- C. BLACK to the connection of the battery.
- D. Plug in the charger.
- E. Switch on the main supply switcher (POWER) on the side of the charger (small light must be on).
- F. At correct connection YELLOW led indicator lights on.
- G. When the battery is full, GREEN led indicator lights on.

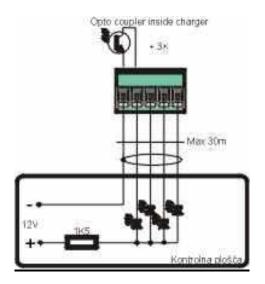
Option solution

H. After 120 seconds GREEN led indicator switches off and YELLOW LED indicator switches on again. Battery state is checked and, if necessary, battery is recharged. When recharging is finished, GREEN led indicator lights on again.



3. CONNECTION OF OUTSIDE INDICATOR

- Mount the control plate and connect it with coaxial cabel as shown on picture right.
- Connect main supply to one of the fuse on the distribution plate.
- Interface for connection of outside indicator is galvanically separeted and does not influence on the activity of the charger



4. Conection of AP-17 charger

5. TECHNICAL DATA

- type of battery: Pb accid with fluid or gel

- capacity of battery: min 20Ah, maximun is not care

- battery voltage: 12V

- effective charging current: 20A (pulse)

- charging mode: Electrode specific Charging System

- main voltage: 195V – 242VAC - main voltage frequency: 40 ... 60Hz

- max. power: 370 VA - ambient temperature: 0 °C do +35 °C

short contact output: not destruction of charger
wrong polarity output: fuse 30A (fuse to burn)

- main input fuse: T 3,15A - cooling of charger: ventilator

- dimension: h:60mm x w: 170mm x d: 245mm

- weight: 1,9 Kg

Service:

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