BATTERY CHARGER K2
MAIN BENEFIT FOR THE BATTERY

- Extended battery life.
- Less deterioration of the plates in that the charge occurs at a continuous and not impulsive current.
- Reduced accumulation of gas in the final charge phase and therefore less deterioration of the plates.
- Reduced heating of the battery because the charge occurs at a controlled maximum current with RMS very similar to the average value.
- Respect for the termic balance, avoiding shocks in the plates that make up the cells which cause dissolution of active material and subsequent formation of waste slime.
- More complete daily charges as charging can be maintained for longer periods without damaging the battery.

DIMENSIONS AND CONNECTIONS

1. Link the connection cable to the battery to be charged. Be careful to the polarity (i.e. red cable to positive pole, black cable to negative pole).
2. Plug in the AC plug of the battery charger (for standard k2 the plug should be a 220-240 V 60-60 Hz one).
3. To disconnect the battery, when the battery is fully charged, unplug the plug and disconnect the cables from the battery.
4. In order to use the AC voltage contact (optional) you should connect the plug shown in the picture.
5. To mechanical fixing please refer to the picture.
RECOMMENDED INSTALLATION PROCEDURE FOR ZIVAN CHARGERS

1) Mounting:

   A) Install vertically with fan at bottom so writing reads correctly.
   B) Suggest mounting on 1” standoffs to four 6 mm mounting threads in heat sink.
   C) Don’t mount in zero clearance compartment. Allow airflow below for fan intake and above for exhaust air. Provide fresh air intake to fan if possible.

2) Moisture: mount in dry location. Prevent moisture and water getting on charger.

3) Grounding: Use grounded AC plug Unit must be grounded or warranty is void.

4) Wiring:

   Units with Connector Plug
   Center pin=ground
   Two outside pins=120 or 240VAC wires

   Units with wire
   110VAC: green & yellow = ground
   Blue=neutral   Brown=hot
   220VAC: green & yellow = ground
   Blue=hot   Brown=hot

5) Adjustments - (Pre-adjusted)

   Max current: I max (T4)
   Gassing voltage: Gassif. voltage (T3)
   Finish Current: Ieoc (T2) (Finish current goes for 3 hours)

See drawing for pot locations. T4, T3, T2 accessible through slot on side of charger. Counter-clockwise reduces value Clockwise increases it. Pots are multi-turn.

**Current adjustment:** Max current is written on side of charger. If AC circuit breaker trips frequently you may need to turn I max (T4) down. Don’t exceed output current rating on nameplate.

Gassing voltage:

   2.4V/cell @) 25 deg C for lead acid batteries or
   1.2 x battery pack voltage

**Fully charged / finish voltage:**

   2.5V/cell @ 25 deg C for lead acid batteries or
   1.25 x battery pack voltage

Finish current phase should reach this level. If not, turn finish current up or down.