Henan TV station is a large-scale integrated media agency which collected of TV, newspaper, network, new media, art troupe and other business. It is also attached to Henan Bureau of Radio and Television.

This program is a protective engineering, that for ensures the normal operation of television production, rebroadcast, and TV transmission system. The broadcast room adopted by integrated lightning protection technology, implemented of a complete, multi-level protection measures to improve the operational reliability of that, and establishes a safe work environment for the television station staff.

1. Installation & Debugging
   1) Before installation, please check the appearance of the battery
   2) The installation of the battery must be conducted by professionals
   3) Battery cannot be used in a closed or high temperature environment (suggested recycling temperature for 5 ~ 35 °C.)
   4) The battery should be uniform force when Installation and carrying the battery. Force at the shell should be part of the battery shell to avoid damage the pole.
   5) Please put the battery in order of priority identified “+” “-”pole when in a multi-series usage. The space between batteries cannot be less than 15mm.
   6) In the course of the battery connection, wear protective gloves. When use a torque wrench and other metal tools, please use insulation packaging to prevent electric shock. Prohibit access metal tools to the battery positive and negative terminals at same time.
   7) Prohibit more than 3 batteries when they are in parallel
   8) Ensure the external device in the off-state before connect with it. Then connect the positive pole and negative pole of both of them, and fastening the connect cable.

2. Announcements
   1) Non-professionals cannot open the battery, in order to avoid danger, if the
battery shell is broken, and Sulfuric acid leak, please rinsing skin with plenty of water, or go to a doctor if necessary.

2) Pay attention to the connect cable with batteries when use them, and be careful not to short circuit.

3) Please avoid strong vibration or mechanical damage when using battery

4) Use upper and lower battery container with vent for heat dissipation

5) Please do not let battery in rain, or put it in water

6) Use twisted dry wet dishcloth to clean battery, do not use dry dishcloth, duster, or chemical cleaning agent.

7) Do not mixing battery with different capacitance, use date, or manufacturers.

3. Charge Methods

It is very important for battery to charging with correct way. Incorrect charging method will result in battery over-charging and under charging, affect the performance and life of battery.

There are two commonly charging methods:

1) constant voltage charging current limiting

2) constant current charging

4. Constant Voltage Charging Current Limiting

This method is the best way to charge valve control lead-acid batteries (VRLA). It has intimate connection with charging voltage and environment temperature.

1) Backup battery: 2.23 ~ 2.30 / single, at 25 ℃,

2) Batteries for cycling application: 2.40 ~ 2.50 / single, at 25 ℃.

Note: the biggest start charging current as generally not more than 0.3 CA when the battery charge voltage of 2.30 V/single at 25 ℃, a full charged, the charging current reduced to 0.5 ~ 4 ma/AH, remain the same.

When the battery is 2.4 V/single, battery fully charged, the charging current
is reduced to 3 ~ 10 ma/AH, remain the same.

5. **Constant Current Charging**

   In this way, it must be cut off immediately when the battery fully charged. Otherwise, it will result in battery over-charging and under charging, affect the performance and life of battery.

   In this way, charging current is generally not more than 0.1 CA. The battery will fully charge when the charge capacity reached 1.07 ~ 1.15 times that the last time it had discharge capacity.