

Solar panels age : format of the serial number, 11 positions.

“21009060644”

2: means the workshop No.

10: means 2010

09: means month, September

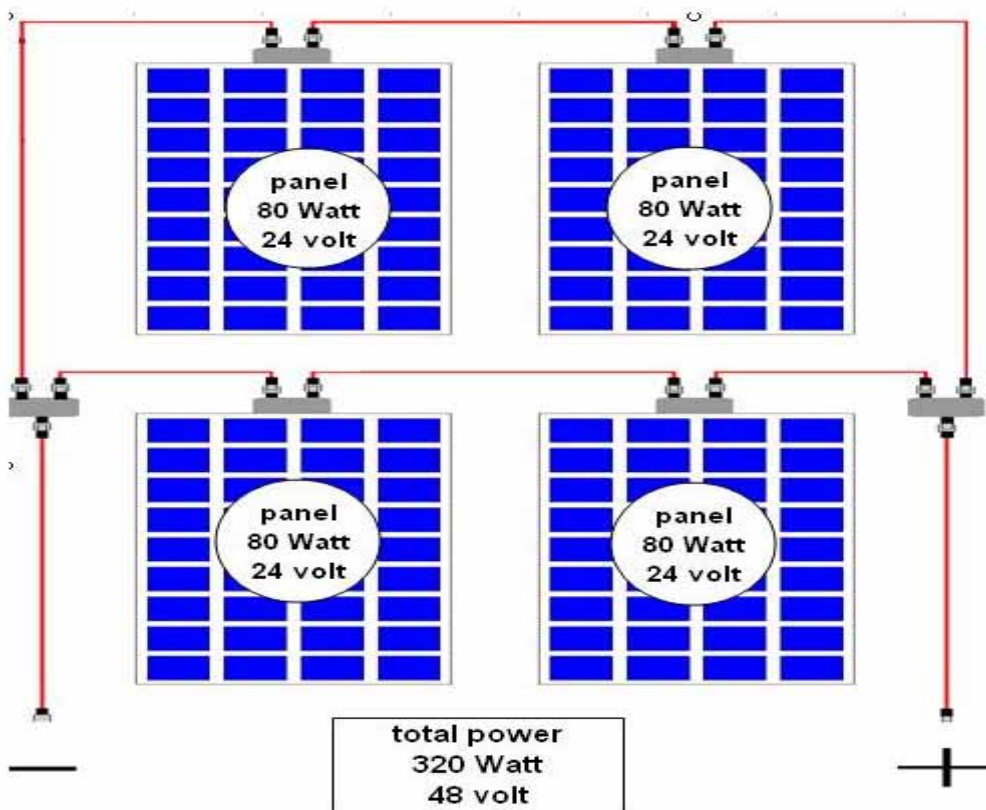
06: means date,6th

0644: means the pcs produced in that day.

To get a useable voltage, cells must be in connected in series

To get a “12 Volt “ panel 36 cell are used ( 17V) max voltage for regulator: 28 volt from solar panels

To get a “ 24 Volt “ panel 72 cells are used ( 36 V) max voltage for regulator: 55 volt from solar panels



**IMPORTANT**

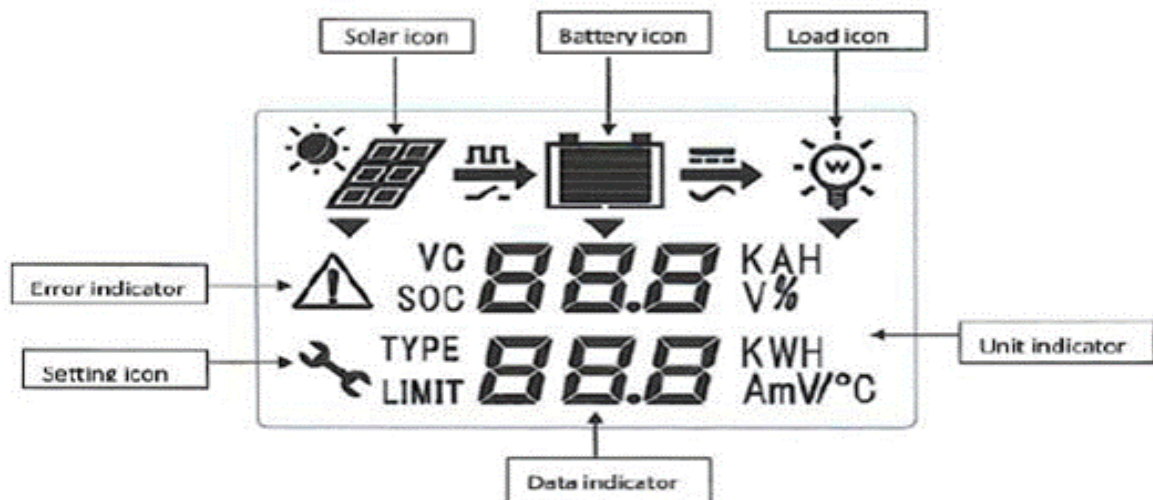
- Always connect the batteries first.
- Use for 12V battery system only 12V (36 cells) solar panel array.
- Use for 24V battery system only 24V (72 cells) solar panel array.



## 7. REMOTE METER DISPLAY [OPTION]

### Features

- ◇ LCD display: all systems parameters in digital value and symbols for system status.
- ◇ Battery type setting.
- ◇ Battery Ah setting.
- ◇ Temperature compensation setting.



### 7.1 General

Two LED indicators above LCD:

- Green on when charging.
- Red on when error.

The meter backlight has two backlight levels:

- High level for 15 seconds after pressing one of the push buttons.
- Low level during the next 15 seconds.

## 7.2 Remote meter operation instructions

Push button functions from left to right:

- K1: Set
- K2: Left←
- K3: Right→
- K4: ON/OFF/ESC

### 7.2.1 Meter display options by pressing K2 or K3

- solar panel voltage, solar panel charge current
- battery voltage, charge current
- load voltage, load current
- battery capacity (Ah), temperature
- battery capacity percentage, battery temp compensation
- battery capacity (Ah), battery type
- total charged Ah, total charged Wh
- total discharged Ah, total discharged Wh



### 7.2.2 Data setting operation:

The following parameters can be adjusted:

- battery capacity
- battery temperature compensation
- battery type

Procedure:

- Use K2 or K3 to select the display option with data to be adjusted.
- Press K1 to enter setting mode.
- Press K2 or K3 to modify data.
- Press K1 to save the modified setting, or press K4 to return to previous setting.

### 7.2.3. More about the adjustable parameters

Battery capacity:

- Range: from 10Ah to 900Ah, in 10Ah steps.
- Default value: 200Ah.

Battery temperature compensation:

- Range: from 0 to 10mV/Cell/°C.
- Default value: 5mV/Cell/°C.

Battery type:

Three battery types can be chosen:

- Sealed generic (SEL),
- Flooded generic (FLD),
- GEL generic (GEL).

The default setting is GEL.

The corresponding charge voltages are given in section 5. Please choose the charge voltage that is closest the recommendation of the battery manufacturer.

### 7.2.4. Resetting total charged/discharged values

1. Use K2 or K3 to select the "total charged" or "total discharged" screen.
2. Press K1 to enter setting mode.
3. Press K4 to reset to zero.

## 7.3 Error Icon

The red LED and the error icon will flash in case of an error.

Please:

1. Check wires
2. Reduce load if needed
3. Reset the controller by pressing K4

## 7.4 Data updating

The display is updated every 10 seconds.

The charged/discharged Ah and Wh counters are updated every minute.

