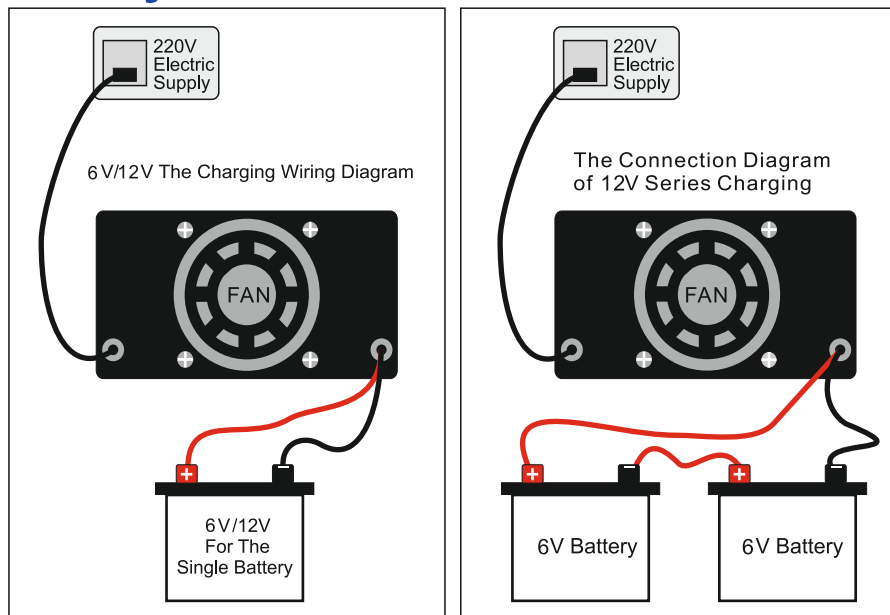


IX.The Usage Installation



X.Warnings

- A.The charger inside has high-voltage and dangers, if the charger has trouble or failure , please contact the seller or manufacturer.
- B.Forbid that using this product in the humid, hot, flammable and combustible environment.
- C.Forbid that using this product in the place where will block the radiator holes or when the fan has stopped working.
- D.Forbid to put water into this product to avoid a damage.
- E.Forbid that the unprofessional staff separate this product,or you pay for the consequence.

XI.Warm Tips

For best maintenance your batteries, please don't charge the battery when your battery is exhausted , the lead acid battery don't belong memory battery, its suitable to multi-charge and multi-release current. If the 12V battery exhausted the capacity under 10V, firstly the battery will have a large damage, moreover our charger will make an over-current protection easily. At the moment you should turn off the power for 10 minutes, after, you can use it again. And it means your battery has reduced under 10V,it already lost power terribly, next time you use your battery

VOLT POLSKA

The battery charger SMART 6V/12V 15A A16



I.Features

- 1.This product is applicable to the 6 V or 12V lead acid batteries,including added-water storage batteries ,starting batteries and maintenance-free batteries.
- 2.It uses the advanced microcomputer managemental system to multi-protect your batteries.
- 3.It uses the pulse width modulation(PWM) technology to automatically charge the batteries through a 4-stage charging cycle.
- 4.Guarantee that the batteries won't damage even if the batteries sulfided, stored gas,or lost water.

II.Parameters

The battery charger SMART 6V/12V 15A A16

Input Voltage: AC110V-250V

Output Voltage: 6V/12V

Working Current:0-15A Adjustable automatically

Suitable Capacity: 3AH-200AH

Frequency:50-60HZ

Work Efficiency:98%

Voltage Identification: 6V Peak (2-7.4V); 12V Peak (8-14.5V)

Work Temperature: -30℃ to +50℃

Dimension:17.5(L)cm*13.5(W)cm*7.5(H)cm

Gross Weight:0.95kg

Warranty:1 year

III.The Working Mode

Constant Voltage:Use the constant voltage to charge batteries,whether the current will start largely,but as it is working will decrease less.

Constant Current:It means the storage battery voltage is lower than the set voltage of this charger, but this charger will supply constant charging current to your batteries so that it can maintenance both the battery and the battery charger.

Trickle Charge Modulation:When the battery voltage is approaching the set voltage and the charging current is lowing to the set current,it will turn to the floating charge mode from trickle charge mode automatically,it means full-charge,but it will keep on floating charge mode.

Floating Charge Modulation:It will keep maintenance-method charging your battery ,but the charging current will be small a bit.

IV.Multi_protection

Overheating protection:When the temperature of the charger is over 150℃ ,our charger will stop working ,when the temperature reduce to 80℃ or turn off the power ,after 10 minutes,the charger can work again.

Intelligent protection: Only when the charger detects a battery connection, the charger have current and voltage output.

Reverse-connecting protection:When you put the reverse-connection,the charger will automatically close the output (the voltage and the current); after exactly to connet it will be automatically recharging again.

V.The Charging Operation

First Step:Check if the voltage of your storage battery is suitable for output voltage of our charger or not;

Second Step:Correctly connect the wirings that the charger to the battery as the installation diagram;

Third Step:Check the voltage of electric supply of your battery is suitable for input voltage of our charger or not;

Fourth Step:Connect the electric supply and battery, then Observe whether the indicator light and LED are displayed or not, The cooling fan will turn fast or slowly when charged shows on pulse charge ,this is our distinction with the general chargers.

Fifth Step:If the charger isn't working ,just cut off the electric voltage supply connection quickly, and check about all the connections that battery to charger.

VI.The Functional Description

When the charging rate displays 25%、50%、75%、100% ,it shows the charging rate of power.This product use the full-microcomputer screen display, smart pulse charge. Pulse charge normally use the solution which is both charging and releasing that charged for 5 seconds then released for 1 seconds ,therefore the most Oxygen which was produced from the charged procedure will become the electrolyte on the pulse way. Not only limit the gasification what inside electrolyte of your battery ,but also can repair your battery which sulfided.

VII.Troubleshooting Procedure

Trouble	Analyzation For Trouble
The charging time only has some minutes, even its shorter than some minutes ,the screen already display full-charged.	1.Check if the battery voltage reference match your battery or not, and survey about the radiator fan is working or not.
	2.It means the battery has no capacity or the battery was full-charged before (We suggest that retest it after to release down the power, or use other batteries which less power to test the charger) .
	3.Check if neither the battery capacity is over-small nor the battery has damaged.
While the battery is charging ,the surface of the battery is hot, or although it has already charged in a long time, the screen won't display full-charged.	1.Your battery has a leakage $\geq 0.3A$ current
	2.Because the technics of your battery is failure, or the material of your battery is failure.(We suggest that you should buy the battery with a good quality.)
	3.Check if the connection which the battery to the charger is correct or not as the reference.
Even if the battery is full-charged, it can't use durably.	Because your battery has been burn-in or already has damaged, we suggest that maintenance or change your battery.
The battery is normally connect but cannot be charged.	Because the battery has been a long time not to use, the battery can give up to the ghost ,or the battery on a terrible of short-circuit.

To charging the batteries for car or motorcycle which has been for a long time not to use will display the circle which has the four-cells within 25%、50%、75%、100% are sparkling simultaneously ,it means the voltage is over-low.Because the battery has left working for a long time or has given up, the block power is big .we can use the fast repairing switch of this product to repair it.

VIII. The Specification About The Charging Mode

Motorcycle Charging Mode : When turn on to charging your battery, the indicator will be a long light. When full-charged ,the indicator light will be extinguished.On this load ,the system will be on a maintenance mode automatically. The charger is suitable to charge 3AH to 200AH batteries for 6V. 6V Peak(2-7.4V).

Car Charging Mode : When turn on to charging your battery, the indicator will be a long light. When full-charged ,the indicator light will be extinguished. On this load ,the system will be on a maintenance mode automatically. The charger is suitable to charge 3AH to 200AH batteries for 12V. 12V Peak(8-14.5V). when the battery voltage is below 8v, the charger cannot recognize the 12v battery.

Warnings :

It is normal When your charger heats up during charging and automatically stops after heating up. When your battery has charged for a long time not to show full-charged ,and the temperature of the battery is going up ,you need to stop charging at once to avoid over-charged. This status sounds your battery has sulfided too much .At the moment ,your battery need to change.