

AUTOMATIC 7 STAGE SMART BATTERY CHARGERS

7 Stages of Smart Battery Charging Technology for Motorbikes, Jet-ski's & more

Product Model No.	Weight	Dimensions
KT72400	0.60Kg	149mm (L) x 71mm (W) x 21mm (H)

The KT Automatic Smart 7 Stage Battery Charger is designed to provide a long-term battery maintenance solution by keeping batteries charged, desulfating batteries and eliminate the risk of 'overcharging' your battery via it's Smart Charging Technology.

The light-weight charger is designed to charge 12V Lead-Acid Batteries from 6Ah to 50Ah, however can also maintain batteries up to 100Ah. Suitable for use with Motorcycles, Jet Ski's, ATV/Quad Bikes, Lawn Mowers and More.



Applications



Key Features

- ✓ Smart charger plus maintenance & recondition function
- ✓ Easy selection of battery type by button.
- ✓ LED indicators to show battery selection and mode settings.
- ✓ 4 Mounting points in corners for easy mounting of charger.
- ✓ Suitable for use in charging motorcycle batteries, jet-ski's batteries, moped batteries, lawn mower batteries, atv batteries, boat batteries and more.
- ✓ High efficiency and light-weight.
- ✓ Ultra low power consumption for stand by mode.
- ✓ Easy to use, clear charging status display, no technical experience required.
- ✓ Fully controlled by microprocessor.
- ✓ Lower battery voltage start to charging, can charge any severely discharged or heavily sulfated battery.
- ✓ Battery voltage analysis, reconditions battery automatically.
- ✓ Prevents over-charging your battery for long term charging applications
- ✓ Short circuit or reverse polarity protection: The charger will automatically turn off when the output short-circuit or reverse-polarity occurred and prevent any damage.
- ✓ Heavy-duty cables and corrosion-resistant output connectors.

Specifications

- INPUT: 220-240V AC / OUTPUT: 12 Volt, 2000Ma.
- BATTERY RANGE: 6-40Ah. / CHARGE CONTROL: GEL (14.1V) STD (14.4V).
- TYPE: SMART & AUTOMATIC.
- INPUT VOLTAGE RANGE: 100-240V AC.
- INPUT FREQUENCY: 50/60Hz.
- OUTPUT VOLTAGE: 12V / OUTPUT CURRENT: 2000mA.
- START CHARGING VOLTAGE: >2.0.
- OUTPUT VOLTAGE AT NO LOAD: <0.5V.
- DIMENSIONS: 149mm (L) x 71mm (W) x 32mm (H).
- GROSS WEIGHT: 0.6Kg.
- IP RATING: IP63 RATED (Protected from total dust ingress. Protected from water spray less than 60 degrees from vertical).
- APPROVAL CERTIFICATIONS: FCC, C-TICK & CE.



Charging Modes

1 BATTERY DESULFATION CHARGING

- 20% charging LED is ON.
- Engage high peak pulse for deep-discharge or sulfated battery.
- Dissolve the lead sulfated crystals, bring the electrolyte fluid to well-distributed state.
- The battery voltage will increase slowly.

2 SOFT START CHARGING

- 20% charging LED is ON
- The battery voltage will increase slowly

3 BULK CHARGING

- 80% charging LED is ON.
- The battery can be charged to approximately 80%
- The charger delivers an almost constant current 2000mA until the battery voltage reaches the set value

4 ABSORPTION CHARGING

- 80% charging LED is ON.
- The battery can charge up to almost 95%
- The charging current tapers and the charging voltage is kept constant at the set value

5 BATTERY ANALYSIS

- The charging is interrupted for a short period for battery voltage is measured
- If the battery voltage falls too quickly, the battery is probably faulty. The full LED is flash
- Recondition charging
- Engage this charging for aged battery or under charging result from wrong selected charging rate
- Balance the battery cell.
- The full LED is flashing (if this situation is occurred)

6 RECONDITION CHARGING

- 80% charging LED is ON.
- The battery can charge up to almost 95%
- The charging current tapers and the charging voltage is kept constant at the set value

7 FLOAT CHARGING

- Full LED is ON.
- The float mode allows the charger to effectively be left connected to your batteries; it works at a safe level and ready for use.

8 LONG-TERM MAINTENANCE CHARGING

- Full LED is ON.
- The program engages a special charging waveform and monitors the battery voltage variety, if the battery voltage sinks, the special pulses will keep the battery in optimal state, if the battery voltage drops even lower, the battery charger will switch into bulk charging. The maintenance mode allows the charger can be connected to the battery over the course of a season; If possible, check the electrolyte liquid level in the battery.

Eco Mode

If AC power is connected, and the battery is not connected, the charger will automatically go into ECO mode. When AC power is connected and battery disconnected, the input power drawn is less than 0.36W, equal to power consumption of 0.01kWh per day; after the battery is fully charged and during long term maintenance stage, the total power consumption is around 0.03kWh per day.

Battery Capacity & Charging Types

- Suits all Lead Acid type batteries. (GEL, WET, Sealed, AGM, Calcium).
- 12 Volt Output, Charging current 2000mA.
- Battery Capacity: The following maximum AH capacities are to be used as a general guide.

CHARGE CURRENT		2000mA	
BATTERY CAPACITY: CHARGING		6-5AH	
BATTERY CAPACITY: MAINTAINING		4-100 AH	
BATTERY TYPE: THE FOLLOWING BATTERY TYPES ARE TO BE USED AS A GENERAL GUIDE			
BATTERY TYPE SELECTION GUIDE / BATTERY TYPE GUIDE		ABSORPTION VOLTAGE	FLOAT VOLTAGE
GEL	GEL BATTERY	14.1V	13.4V
STD	WET, SEALED, AGM, VRLA, CALCIUM	14.4V	13.5V

Safety Protection Features

INTERNAL OVERHEAT PROTECTION

The charger is built-in with overheat and overload electronic circuit protection. When the charger is overheated, the charger will decrease the charging current. If temperature is decreased, the charger will resume to normal charging.

TIMER PROTECTION

The charger provides the maximum charging time management for each charging stage; this condition may occur if attempting to charge a large capacity or faulty battery. Once the charger is timed-out, the charger will stop charging to protect your battery and the RED LED will slow flash. If this situation occurs, check your battery status.

REVERSE POLARITY PROTECTION

The charger has reverse polarity protection. Should reverse polarity occur (Red LED ON, while output leads are connected backwards), simply correct the connection.

SHORT CIRCUIT PROTECTION

The charger has output short-circuit protection. If the charger output lead short condition exists (Red LED ON, while output leads are connected backwards), simply unplug charger from AC power and properly remake the connections as described in this manual. The charger employs the firm hardware and smart program to automatically detect the output connections. Once the charger detects the output short-circuit or reverse polarity, it will not deliver any output current, will not cause any danger.

Important Safety Information

While this charger is IP63 Rated, charger should not be used to charge vessels or personal water crafts while in water.

Accessories Included with Kit



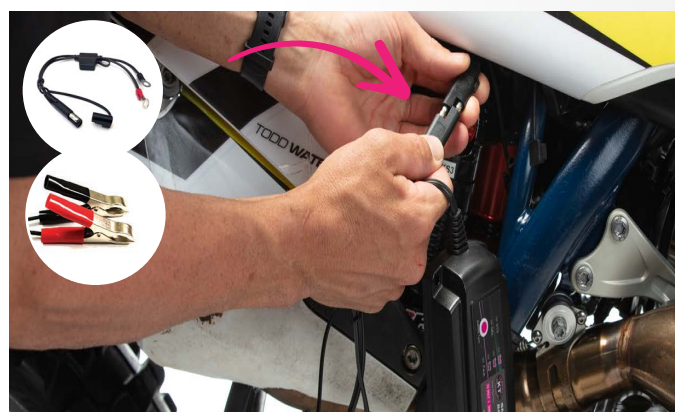
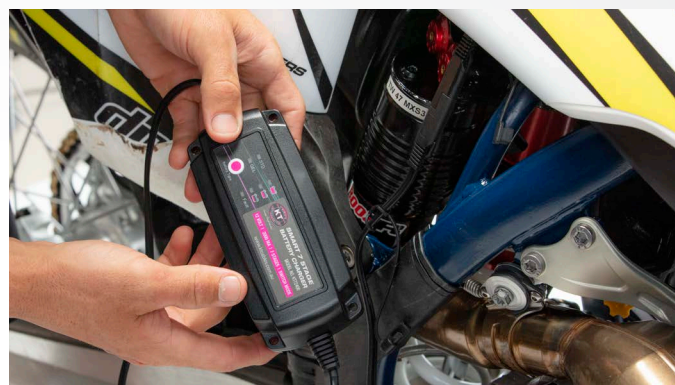
CHARGER FEATURES BUILT IN 240V POWER CONNECTION FOR EASY CHARGING.



POSITIVE (RED) & NEGATIVE (BLACK) ALLIGATOR CLAMPS FOR EASY CONNECTION TO BATTERY.



RING TERMINAL ADAPTOR CONNECTS CHARGER TO BATTERY.



EASY CONNECTION TO BATTERY VIA RING TERMINAL ADAPTOR, OR ALLIGATOR BATTERY CLAMPS ADAPTOR.

Packaging Style



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