

MULTI XS 3600



FEATURES & BENEFITS

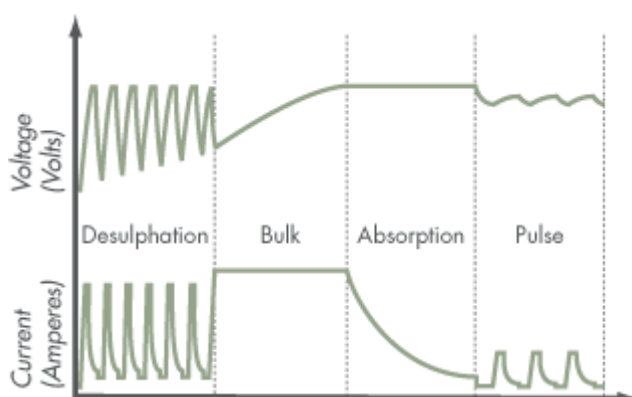
- Four step, fully automatic switch mode model.
- Charges lead-acid batteries (Wet, MF, GEL and AGM) from 1.2Ah to 120Ah.
- Maintenance pulse charging increases battery life and gives superb performance.
- Charges even drained batteries.
- Pulse recover of slightly sulphated batteries.
- Three unique charging modes for use on small batteries, large batteries and a special cold mode that is also suitable for AGM batteries.
- Low back current drain, low ripple and input voltage independent (170-260V).
- High efficiency: 85%
- Delivered with two interchangeable connection leads, one with clamps, and one with eyelet terminals.
- The charger can be connected for months, ideal for seasonal vehicles.
- Compact design with mounting holes for permanent assembly.
- 2 year warranty.

SAFETY FEATURES

- Electronic safe, the charger will not damage vehicle electronics. The battery does not normally need to be disconnected from the vehicle when charging.
- Minimal gas build-up and a patent-pending spark protection system.
- Short circuit and reverse polarity protected.
- Double insulation.
- Splash and dust proof (IP65) and approved for outdoor use.
- Progressive temperature protection.
- Tested and approved by Intertec SEMKO AB. S-marked and conforms to the following standards: EN 60335-1, EN 60335-2-29, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3, EN 60555-2.

CHARGING CHARACTERISTICS

The MULTI XS 3600 has a fully automatic, four step charge:



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1. Desulphation

Runs a complete charge cycle within a fraction of a second. The cycle repeats during the whole desulphation phase. Every cycle recovers some lead sulphate into useful material.

2. Bulk

Charging where 80% of the energy is returned. The charger delivers a constant current until the battery voltage has reached the set level.

3. Absorption

Final part of the charge up to 100%. The battery voltage is kept constant at the set level, during which time the current drops gradually.

4. Pulse




Maintenance charging. The state of charge varies between 95% and 100%. A pulse is sent out to the battery if the voltage drops. This keeps the battery in trim when not in use. The charger can be connected for months at a time.

Using the MULTI XS 3600 gives your battery an optimum service life and operational reliability.

BATTERY TYPES & SETTINGS

The MULTI XS 3600 can be set very easily to charge Wet, MF, GEL and AGM lead-acid batteries. You will find an explanation of the various battery types under [Charger University](#), [Battery Types](#).

You can use the MULTI XS 3600 to charge a range of batteries, from small 1.2Ah to large 120Ah.

SETTINGS	EXPLANATION
	Mode 14.4V/0.8A This mode is normally used for batteries less than 14Ah.
	Mode 14.4V/3.6A Normal setting for wet batteries, MF and for most GEL batteries.
	Mode 14.7V/3.6A This mode is recommended for many AGM batteries. This mode is also useful for charging batteries in sub-zero temperatures.

BULK CHARGE TIME	
BATTERY SIZE (Ah)	FOR ABOUT 80% CHARGE (h)
2	2
8	8
20	5
60	15
100	25

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TEMPERATURE PROTECTION

To protect the charger from overheating, the MULTI XS 3600 is fitted with power limitation. The power reduces when the ambient temperature increases. The power also reduces if the charger were to be covered, which protects the charger from damage. The charger continues to work, but at a lower output. When the ambient temperature drops, the power automatically increases again.

TECHNICAL DATA

MODEL	MULTI XS 3600
Input voltage AC	170-260VAC, 50-60Hz
Output voltage	Nominal: 12V
Efficiency	85%
Charging voltage	14.4V/0.8A, 14.4V/3.6A, 14.7V/3.6A
Charging current	3.6A max
Back current drain*	1.3mA
Ripple**	Max 50mV rms, 0.13A
Ambient temperature	-20°C to +50°C, output power is reduced automatically at higher temperatures.
Type of charger	Four step, fully automatic switch mode with pulse maintenance.
Type of batteries	12V lead-acid batteries (Wet, MF, AGM and GEL)
Battery capacity	1.2 -120Ah
Dimensions (L x W x H)	165x61x38mm
Insulation	IP 65 (splash and dust proof), outdoor use
Weight	0.5kg

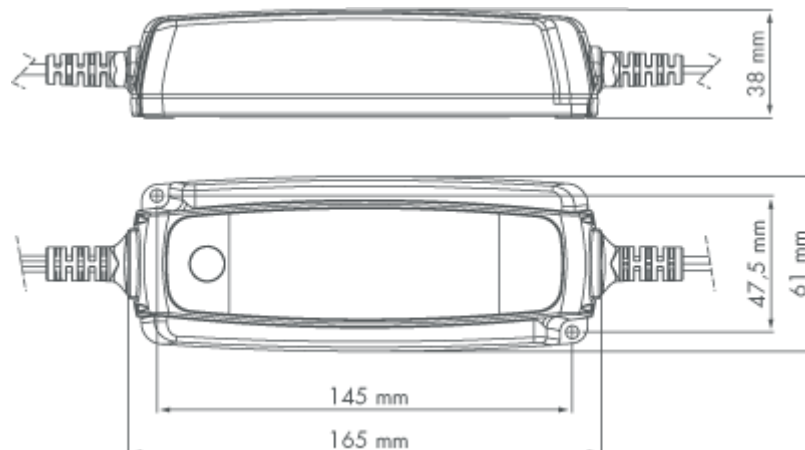
***) Ripple denotes the amount of interference there is to the current and voltage. A high current ripple heats the battery and shortens its life. A linear charger has a current ripple of 70 - 400% which is much larger than the maximum 5% for a modern sealed battery. Voltage ripple could harm other equipment, which is connected to the battery. The MULTI XS 3600's ripple is only 2%. The battery gains a long service life and there is no risk of damage to other electronic devices connected to the battery.

*) Back current drain is what drains the battery if the charger is connected without the power cord connected. The MULTI XS 3600's extremely low back current drain corresponds to 1Ah per month. Many other chargers have 1Ah per day.

MOUNTING

The charger is easily fitted in place using two screws.

The diameter of the mounting holes is 4.5mm located as shown in the image. The image also shows the dimensions of the charger.



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EQUIPMENT

The MULTI XS 3600 is delivered with two different battery leads, one with clamps and one with eyelet terminals, all colour coded for easy +/- identification.

If the battery is difficult to access, the lead with eyelet terminals can be mounted to the battery, and the quick connectors are located so that it is easily reached for charging.

You can also purchase additional leads allowing you to have one lead with eyelet terminals fixed to all your vehicles with batteries that are difficult to get at, and charge them simply from the same charger.

ACCESSORIES

The following extra accessories are available for the MULTI XS 3600:

- Connection lead with eyelet terminals.

Available in diameters of 6.4mm or 8.4mm.



- Connection lead with cigarette plug.



- Connection lead with battery terminals.

