



Skán 1.0

Battery charger

JM-No. 609 01 96



- (EN) Battery charger
- (PL) Ładowarka do akumulatorów
- (ES) Cargador de baterías
- (IT) Caricatore batteria
- (CZ) Nabíječka baterií

Scope of delivery:

JMP Skán 1.0, adapter cable with terminals, adapter cable with eyelets for permanent connection to the battery

Thank you very much for choosing a JMP Skán battery charger. The JMP Skán 1.0 charger is suitable for both daily use involving rapid charging of a battery and long-term trickle charging (e.g. where vehicles are in winter storage).

Technical data:

6/12 V 1 A, for batteries from 2 Ah to 50 Ah

Dimensions: 180 x 80 x 40 mm, weight: 0.5 kg, mains power cable: 2 m, connection cable: 2.10 m

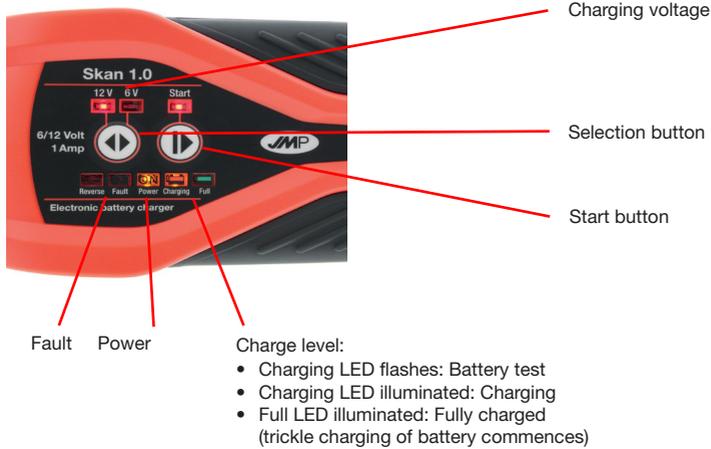
Suitable for:

- Standard lead acid
- Gel
- AGM
- EFB
- Lithium (LiFePO₄)

Safety instructions:

- Read the operating instructions carefully prior to using the charger.
- The charger is intended for charging lead acid, gel, AGM, EFB and lithium (LiFePO₄) batteries. It should not be used for any other purposes.
- Disposable batteries should not be charged. Do not charge any frozen batteries.
- Battery acid is caustic. In the event of unintentional contact between the skin or eyes and acid, rinse the skin off and the eyes out immediately under flowing water and consult a doctor.
- Always wear protective goggles when connecting and disconnecting the battery and keep the battery away from the face.
- Keep out of reach of children. This device is not a toy and should not be used as such.
- This device should not be used by persons (including children) with limited physical, sensory or mental aptitude or lacking in adequate knowledge and experience if these persons are not being supervised or have not received comprehensive instruction.
- Potentially explosive gases can be created during charging. Sparking and naked flames should be avoided as a result. Do not smoke.
- Realise charging in a ventilated and dry environment.
- Never deposit the charger on the battery during charging.
- Interventions in the device for the purpose of repair and maintenance should only be undertaken by skilled personnel.
- No warranty claims will be entertained in the event of improper use of or interventions in the device.

User interface:



Adjustable charging mode:

6 V	Charging of 6 V batteries from 2 Ah to 32 Ah Charge retention of 6 V batteries from 2 Ah to 50 Ah
12 V	Charging of 12 V batteries from 2 Ah to 32 Ah Charge retention of 12 V batteries from 2 Ah to 50 Ah

Charger use:

Connection

1. Connect the charger power supply unit to the socket.
2. First connect the red terminal to the positive terminal on the battery.
3. Then connect the black terminal to either the negative terminal on the battery or the earth terminal on the vehicle body.
4. Select the desired charging mode based on the battery using the selection button. Then acknowledge with the start button.

It is recommended that the optional eyelets be used for sustained connection to the charger (e.g. for battery trickle charging).

Disconnection

1. Following use of the charger, disconnect the link to the mains socket.
2. Then disconnect the black terminal from the negative/earth terminal.
3. Disconnect the red terminal from the positive terminal on the battery.

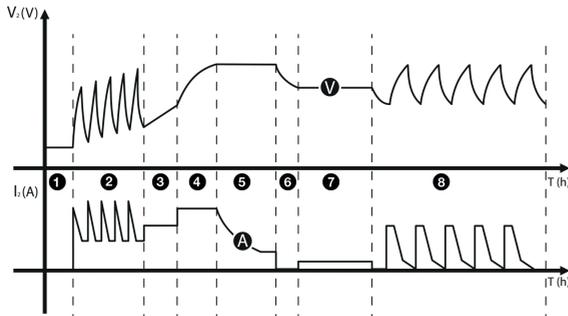
Battery analysis and fault signals:

Chargers are capable of checking the battery status prior to and during charging and indicating any connection faults between the charger and the battery to be charged. The following indications can appear in the event of faults during charging:

Display message	Cause	Solution
 REVERSE	Terminals are not connected correctly to the battery. Possible reverse polarity.	Connect the terminals correctly and restart charging (see "Charger use").
 FAULT	Battery voltage too high (attempt to charge a 24 V battery).	Check battery voltage range.
 FAULT	Battery charge capacity too high.	Use a charger with a greater charge capacity.
 FAULT	Battery is incapable of retaining a good charge level.	Battery may be faulty.
 FAULT	Heavily discharged battery is not rechargeable.	Battery may be faulty.
 FAULT	Battery voltage too weak, not rechargeable. Charging of batteries under 0.8 V is impossible.	Battery may be faulty.
 FAULT	Cable disconnected or short circuited.	Connect the terminals correctly and restart charging (see "Charger use")
	Complete short circuit on battery.	Battery may be faulty.

Charge cycles:

The charge cycles of new battery chargers have been specially developed to optimise charging of all commercially available batteries. The variety of technologies employed in batteries available today in retail demand different charging characteristics to ensure correct and complete charging. JMP Skan chargers guarantee the right charge cycle for every type of battery, thus extending the life of your batteries.



1. First diagnostic step: "Diagnostic I" (initial diagnosis)	The charger analyses the battery charge level and the voltage with which it should be charged.
2. First charging step: "Repair Mode" (desulfation)	Charging with pulse current until the battery achieves the optimum voltage and current values to commence the second charging step.
3. Second charging step: "Initial Charge" (battery activation)	Charging with reduced, constant current.
4. Third charging step: "Bulk Charge" (charge with constant current)	Charging with constant current until maximum battery voltage is achieved.
5. Fourth charging step: "Absorption Charge" (charge with constant voltage)	Charging with stabilised voltage until current reaches minimum values.
6. Second diagnostic step: "Diagnostic II" (second diagnosis)	The charger checks the status of the charged battery.
7. Sixth charging step: "Float Mode" (trickle charging with constant voltage)	Trickle charging with constant, reduced voltage.
8. Seventh charging step: "Trickle Mode" (trickle charging with pulse current)	Trickle charging with pulse current (constantly available).

Safety precautions:

JMP Skan chargers are equipped with protective features that ensure maximum safety during operation and use of the device.

- Complete protection against sparking
- Protection against short circuiting
- Voltage compensation
- Overheating protection
- Protection against reverse polarity
- Protection against weather conditions

(IP65: Protected against total dust ingress and low pressure water jets from any direction)

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