

HIGHLIGHTS

AREA OF APPLICATION

Solar battery chargers by Sickert & Hafner conserve the vehicle battery's charge and are preferably used in stored vehicles.

PERFORMANCE DATA

Our solar battery chargers were developed in accordance with the specifications of the automotive industry and thus meet all requirements toward composition, function and performance.

BATTERY CARE WITH SOLAR BATTERY CHARGERS

The solar battery charger ASM 600 is ideally suited to render the battery care of stored vehicles more efficient and economic. It maintains the charge status of the battery throughout the period of the vehicle's storage, frequently in fact improving it. The regular inspection intervals required by car manufacturers can thus be significantly reduced.

EFFICIENCY

The use of the solar battery charger ASM 600 considerably lowers the cost and time spent on battery care and in high savings potential, even taking the acquisition cost of the modules into consideration.

The use of solar battery chargers saves on

- the disconnection of the battery when storing the vehicle
- the inspection of the battery when storing the vehicle (new vehicles)
- the recharging of the battery
- at least every other inspection interval

The solar battery charger ASM 600 must only be hung into the vehicle once – on storage.

REQUIREMENTS

The only requirement that needs to be met to charge a vehicle with the assistance of a solar battery charger is the presence of an OBD2 connection in the vehicle. As virtually all vehicles feature such a connection these days, the solar battery charger can be utilised for every vehicle, irrespective of type and brand.

SICKERT & HAFNER

AUTOMOTIVE SYSTEMS

Solar battery charger ASM 600

Made in Germany



- Maintains the charge status of the vehicle battery
- Corresponds with the high requirements of the automotive industry
- Recommended for battery care by many car manufacturers
- Reduces the cost and time spent on battery care
- Suitable for almost all vehicle types thanks to the OBD2 plug

High costs in vehicles stored long-term due to the self-discharge of the starter battery



In stored vehicles the on-board battery is subject to a not inconsiderable level of self-discharge, due to comprehensive vehicle electronics and temperature influences.

The battery's charge status decreases permanently.

Once the battery's performance has dropped under 60%, the batteries of most new vehicles need to be replaced with new ones for quality assurance reasons.

Frequently, after two months of idle time the vehicle cannot be started. The battery is permanently damaged.

Defective batteries are a bothersome and expensive issue to both clients and dealers.

By utilising the solar battery charger, the loss of capacity can be compensated.

For this purpose the solar battery charger need only be positioned behind the front windscreen of the vehicle and connected to the vehicle's battery via the OBD2 plug.

PROPERTIES AND BENEFITS

HANDLING

Easy handling. The solar battery charger is simply placed behind the front windscreen and fastened at the rear-view mirror mount by means of a holding cord.

DIVERSITY OF CONNECTIONS

Connection with the on-board battery via the OBD2 plug, alternatively also via the cigarette lighter or directly with the battery via charge clips.

ROBUST

Extremely robust design with a break-proof frame made of polycarbonate and a flexible carrier structure of the solar panel.

Tear-proof connection cable (up to 5 kg) and stable plug connections with bayonet lock against accidental unplugging.

TRANSLUCENT

Transparent frame for the avoidance of core shadows and resultant changes of colour on dashboards in the event of long-term use.

HEAT-RESISTANT

Emission-free and heat-resistant materials to protect high-quality vehicle furnishings.

SOLAR PANEL

Solar panel with metamorphous cells that are characterised by a long service life (30 years), constant output and insignificant ageing effects – German quality product.

SERVICE LIFE

High anticipated useful life of approx. 30 years in continuous operation – the initial outlay of the wear and tear-free system is recouped many times over.

PREVENTS SELF-DISCHARGE

The self-discharge of the battery is prevented, thus maintaining its startability. Permanent damage to the battery from sulphation is avoided.

IMPROVEMENT OF QUALITY

Thanks to the permanent trickle charge provided by the ASM 600 solar battery charger, the formation of sulphates is prevented and the battery's storage capacity is maintained.

The vehicle remains able to start and the battery does not suffer any damage.

Complaints decrease while quality increases.

Solar battery charger ASM 600

Scope of delivery



Photo: Ready-to-use solar battery charger with electronic unit, OBD2 plug and 1.5 m connection cable, operating instructions in standard packaging.

Accessories



Photo: Transport and storage container for the transport and safe storage of up to 10 solar battery chargers.

Connecting plug

As an alternative to the standard OBD2 plug, the solar battery charger can also be ordered with a cigarette lighter plug or – for direct connection to the poles of the battery – with charge clips.

Additional solar battery chargers

Up to two additional solar battery chargers can be connected to a solar battery charger to boost performance. The additional solar battery chargers correspond with the standard solar battery chargers – instead of the electronic unit, however, the scope of delivery contains a connection cable (length 0.7 m and a 3.5/1.5 mm barrel connector).

Technical data and design

- The solar battery charger ASM 600 is a solar-powered charging system for the charging and charge conservation of 12 volt lead starter batteries. It can be combined with a maximum of two additional solar battery chargers to boost performance.
- The solar panel is implemented in state-of-the-art thin-film technology and consists of a glass/film structure. It is softly embedded in an external break-proof frame made of transparent polycarbonate. All corners and edges are rounded so that no damage to the vehicle's surface (interior) can occur. A holding cord (undyed, cotton) with length adjustment is integrated into the frame, for safe attachment. The frame also incorporates a miniaturised electronic unit.
- The charge system is voltage limited to 14.2 volt (+/- 0.2 volt) and temperature compensated in accordance with the charge characteristics of lead accumulators.
- The rated charge current per solar battery charger during full solar irradiation (1000 W/m²) is 255 mA. The age-related loss of performance within the first six months, common to all solar battery chargers, amounts to a maximum of 15%.
- The solar battery charger and the electronics are short-circuit protected and reverse current protected.
- It is designed to operate continuously at ambient temperatures between – 40°C and + 90°C.
- The charge plug is designed as an OBD2 plug. Alternatively, an adapter cable (3 m long) with a DIN connector for the charge plug and two battery charge clips (small) on the other end is available for direct connection to the battery poles.
- The connection cable (approx. 1.5 m long, from frame to plug) is made of wear and tear-resistant material and both break-proof and emission-free at temperatures between – 40°C and + 90°C.
- Optionally, an additional solar battery charger (without electronic unit) is available to boost the charging performance. This consists of a connection cable of 0.7 m in length and a 3.5/1.5 barrel connector. A maximum of two of these additional solar battery chargers can be connected to the two inputs of the ASM 600.