

12V

LEAD-ACID (Flooded, AGM, EFB, Deep Cycle) /LITHIUM BATTERY CHARGER AND DIAGNOSTIC SUPPORT



Supplied with cables (8.46'/4AWG)

Model ESS6100

The Associated ESS6100 is a 100 A high power Smart charger with inverter technology. It allows you to keep a 12 V lead or lithium battery at a perfectly stabilized voltage during the diagnostic phases. It will deliver the best charging cycle recommended for the maintenance of the most advanced vehicles on the market. Its USB connectivity makes it 100% customizable. OE Approved.

4 OPERATING MODES

- **Charging:** for 12 V Lead or Lithium (LFP) batteries from 5 to 1500 Ah.
- **Diagnostics:** supports up to 100 A for 12 V batteries in vehicles in the diagnostic phase, in maintenance workshops.
- **Showroom:** provides power compensation when using the electrical accessories of a demonstration vehicle. It also manages the optimal charging of the battery.
- **Tester:** Allows you to check the battery voltage, evaluate the starting system (starter + battery) and the condition of the vehicle's alternator.

100% CONNECTED

- Add, delete or modify charging modes and profiles via USB.
- Import predefined configuration files adapted to the load trades.
- Retrieve the charging history and data on a USB stick and use them on a spreadsheet.
- Connect additional modules (printer, barcode reader, etc.) via its dedicated module socket (SMC: Smart Module Connector).

AUTOMATIC CHARGE

- Extends the life and performance of Lead (gel, AGM, liquid, calcium, etc.) and Lithium (LFP) batteries.
- Specific charging curve in 8 steps (lead battery) or 9 steps (lithium-iron phosphate battery) without supervision.
- Recovers deeply discharged batteries >2 V (automatic SOS Recovery).

ADVANCED FUNCTIONS

- **FV Flexible Voltage**, the charger operates with a supply voltage between 100 and 127 V AC.
- **«Auto-Detect»** function automatically starts a charge when a battery is connected to the charger.
- **«Auto-Restart»** function in the event of a power failure with memory of the settings.
- **Cable inspection and calibration**
- **Locking**, avoids the risk of improper handling, ideal for garages and exhibition halls.
- Up to **12 charging profiles available**, including the Easy profile for simplified charging suitable for all lead batteries.

SAFETY

- Protection of the vehicle's on-board electronics: protection against short circuits, polarity reversal and overcharging. Spark prevention system.
- Interchangeable fusible which protect against misuse.
- Temperature sensor to prevent internal electronics overheating.

ADVANCED DESIGN

- **Durable case** with shock and vibration absorbing pads.
- **Low height** (5.1") for the charger to pass under a vehicle.



SMC

USB



Intuitive interface available in 3 languages (English, Spanish, French)

REPLACEMENT PARTS

- 027930: Fuse 150A
- 022320: AC Power Cord 8.2'
- 027886: DC Cable 8.46'/4 AWG
- 900169: Optional 16' DC Leads are available for re-programming if vehicle is on a hoist
- *Optional 220-240 V AC Power Cord (Charger side uses a IEC 320-C19)

50 / 60 Hz		Icharge	V	Charge	Zz	Ondulation/ Ripple	Charging curve		104°F @100%	77°F @100%	lb	inches	SOS recovery	IP		
100-127 V AC *220-240 V AC	1500 W 2000 W	100 A 120 A	12 V	5 < 1500 Ah	<0.2 Ah/ month	<150 mV Rms	I _U , I _U	8 step (Pb) 9 step (LiFePO4)	55A	75A	14.3	12.2 x 5.1 x 10.2	Automatic >2V	IP 21	150 A	8.2'