

USER MANUAL



PORTABLE CHARGER

60A•12V

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PRESENTATION

The F60A is a high power 12V battery power supply and charger, intended for home use, enabling its use in various situations, as described below:

- Departure by car;
- Charging and recovery of worn out batteries;
- Power supply for automotive equipment with 12V socket, such as tire gauges, vacuum cleaner, cell phone / tablet chargers.

OPERATING MODES

MODE	APPLICATION	BENEFITS
Slow Load	Charge low battery Charge batteries 24h before the event	Cold batteries in the charging process, so there is no wear and tear. Longer service life. Batteries with maximum charge and greater instantaneous energy. Stronger bass.
SCI	When sound is on or fast charge on battery (s)	Total energy from the source at 14.4V. Pulse system between 13.8 and 14.4V with the sound off, equalizing the battery charge.
Output Voltage	Battery-free systems	You can choose an output voltage between 12.6 and 14.4Vdc to power the amplifier or other device.

STEP BY STEP LOW LOAD MODE

Step 1: Press MODE selector until the LED SLOW LOAD lights up;

Step 2: Press the VOLTAGE / BATTERY selector and select the capacity of the battery to be charged or the closest value;

Note: If you have more than one battery, add the capacity of all and then select the closest value.

Step 3: Connect the Red (+) and Black () claws to the battery poles;

Step 4: The battery will be fully charged when the COMPLETE CHARGE led lights up.

Note 1: The LEDs PHASE 1, 2 and 3 indicate which phase the loading is in.

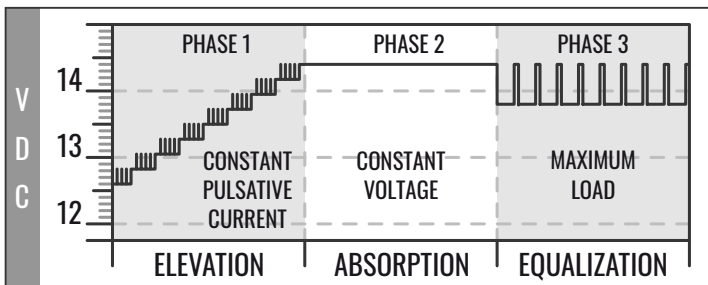
Note 2: For the recovery of worn out batteries, it is recommended to leave the power on for another 24 hours after the full charge indicator light comes on. (The pulsating charge from Phase 3 will be reactivating the battery).

Note 3: The charger can be constantly connected to the battery, without any damage to it.

Note 4: If the full charge indication LED does not light, it means that the battery cell may be shorted, being impossible to recover it.

DESCRIPTION OF THE LOW LOAD MODE OPERATION

It charges the battery in 3 phases (elevation, absorption, equalization). Ideal for recharging / recovering the batteries when they are low on charge, thus obtaining maximum efficiency in charging without wearing out, which increases its useful life.



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PERFORMANCE AND INTELLIGENCE

STEP BY STEP OF AUTO SCI MODE

Step 1: Press MODE selector until the AUTO SCI led lights up;

Step 2: Connect the Red (+) and Black () claws to the battery poles;

Step 3: The battery will be fully charged when the full charge led comes on.

Note: The Source can be constantly connected to the battery, without any damage to it.

DESCRIPTION OF THE AUTO SCI MODE OPERATION

Mode when fast charge (Phase2) in the battery (s) is desired, as it will maintain maximum power at the output (14.4V) and will enter the pulsed SCI system (Phase 3), when the battery (s) are charged and remain in pulsed fluctuation.

STEP BY STEP IN OUTPUT VOLTAGE MODE (SOURCE)

Step 1: Press the MODE selector until the OUTPUT VOLTAGE turns on;

Step 2: Press the VOLTAGE / BATTERY selector and choose the charger output voltage from the following values: 12.6V / 12.8V / 13.0V / 13.2V / 13.8V / 14.0V / 14.2V / 14, 4V;

Step 3: Connect the Red (+) and Black () clamps on the equipment to be powered or use the 12V socket for equipment with this connection.

Note: When connecting an accessory such as the tire gauge, select 14.4V at the outlet, to obtain more power from the compressor, and thus calibrate the tire faster.

BATTERY CHECK-UP

The battery must be discharged

Step 1: Press the READING selector until the VOLTAGE and CURRENT LEDs are lit simultaneously.

Step 2: If the display is not showing 000, keep pressing the READ selector until the display shows 000.

Step 3: Select the SLOW LOAD mode (3.1) and follow all the steps described in this item.

Step 4: When the full charge indicator light comes on, read the value of the charge absorbed by the battery on the display.

Example: If the selected battery is 40A and the indication is 23A, this means that your battery has accumulated 23Ah, and this is the current capacity of the battery.

DESCRIPTIONS



- 1) Air inlet / outlet, intelligent ventilation, do not obstruct;
- 2) Red (+) and Black () clamps to connect to the battery poles;
- 3) 12V / 10 Ampere socket;
- 4) On-off key;
- 5) Power supply cable, automatic bi-volt 110/220;
- 6) Reading selection switch:
 - Source output voltage;
 - Source output current;
 - Battery check-up, 2 leds on;
- 7) Operating mode selector switch:
 - Slow charge mode;
 - SCI auto mode;
 - Output voltage mode (Source);
- 8) Selector switch for battery capacity to be charged in slow charge mode and selector for output voltage in source mode;
- 9) LEDs indicating the phase being performed;
- 10) Led full charge indicator, for battery recovery, keep the charger on for another 24 hours, even after this indication.

IMPORTANT TIPS

Prioritize charging the batteries in slow charge, this way more charge accumulates, besides increasing its useful life.

If the batteries are discharged, charge only in slow charge mode, thus avoiding wear and excessive heating in them.

We recommend that if the source is used to play an automotive sound, turn it on in AUTO SCI mode as soon as you turn on the sound.

DESCRIPTIONS

CARREGADOR PORTÁTIL 60A - 12V - REDLINE	Input (automatic Bi-volt)	90 to 140Vac / 170 to 240Vac
	Consumption with maximum load	900W
	Maximum output current	60 Amperes
	Selectable output voltage	12.6V/12.8V/13.0V/13.2V/13.8V/14.0V/14.2V/14.4V
	Intelligent charging system	13.8 / 14.4 cyclic
	3-phase slow charge system	Elevation / Absorption / Equalization
	Intelligent ventilation system	Dynamic PWM control
	Voltmeter accuracy	99%
	Ammeter accuracy	96%
	Protections	Overload / Short at output / Temperature
Dimensions W x H x D (mm) without cables	204 x 170 x 123	
Length of the claw cables (meter)	1.5	



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