


# INTELLIGENT ENERGY ICHARGER & IDCHARGER



**CEMONT**

- ▶ MICROPROCESSOR
- ▶ UNIVERSAL
- ▶ AUTOMATIC





**INTELLIGENT**  
**BATTERY CHARGERS**  
**WITH**  
**INVERTER**  
**TECHNOLOGY**

▶ **SAFE**

Will not damage your car's onboard electronics

▶ **FAST**

Faster than traditional battery chargers

▶ **UNIVERSAL**

Suitable for all types of batteries

▶ **REDUCED ENERGY CONSUMPTION**

Considerably reduced energy consumption compared to traditional battery chargers

▶ **AUTOMATIC**

When the charge is complete, automatically goes to float mode

▶ **FLOAT CHARGE**

Keeps batteries charged even when they are not being used

▶ **LONGER LIFE**

Battery is always charged to 100%, prolonging battery life

▶ **SPACE-SAVING**

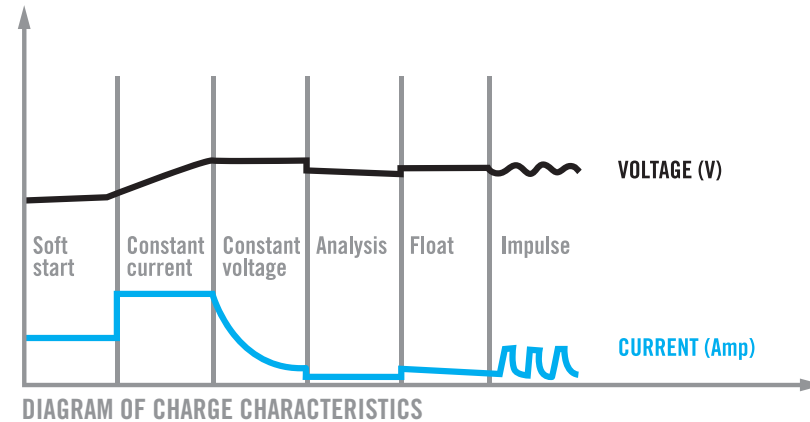
Small, lightweight, compact

# IDCHARGER



## IDCHARGER

Intelligent battery chargers based on inverter technology equipped with microprocessor control. The microprocessor controls the charging process, dividing it into six stages to achieve greater charging efficiency. Due to the float functions, they can remain connected to the battery for long periods of time. They charge all types of batteries: PbWet - PbMF - PbAGM - PbGel - Calcium. The display shows all the charging parameters. The charge rate can be selected: slow, normal and fast charge. LIGHTWEIGHT, SAFE, ERGONOMIC.



## SIX CHARGING STAGES

### SOFT START

Tests the state of the battery. Batteries with a very low charge require the soft start stage. The charge begins with reduced current until the voltage reaches 12V.

### CONSTANT CURRENT

The main stage, in which the majority of the charge is provided (75-80%). The battery charger delivers the maximum current until the voltage at the terminals has reached the optimal voltage level.

### CONSTANT VOLTAGE

Completes the battery charge, taking it to 100%. The voltage is kept constant while the current is lowered until the minimum levels are reached.

### ANALYSIS

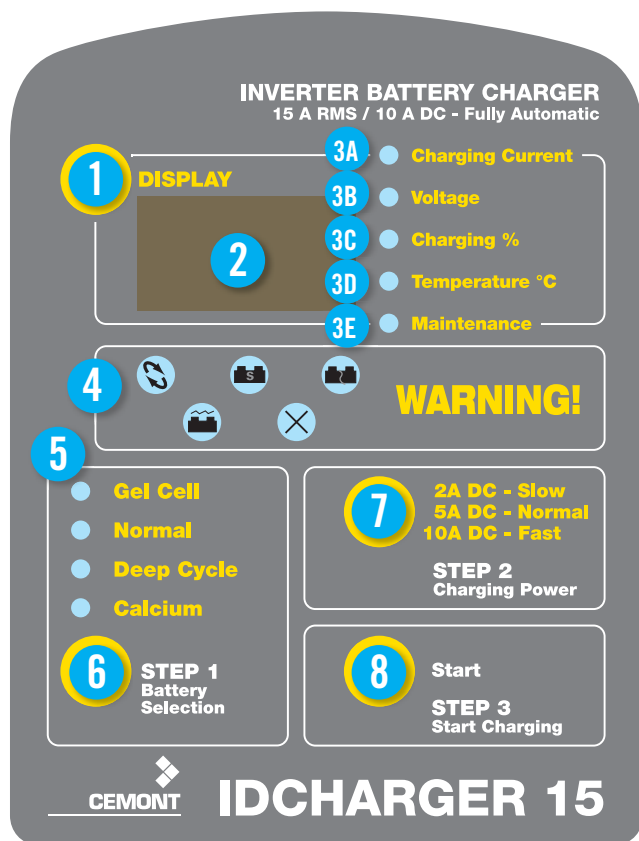
A brief pause is made in the cycle to analyse voltage drop and test self-discharge to detect if the battery is defective.

### FLOAT PULSE

For deep cycle batteries

The float charge at constant voltage, keeps batteries 100% fully charged

The float charge at pulse voltage to start a new charge cycle, when the voltage falls to the limit set. This keeps the battery in perfect condition when it is not being used



## FRONT PANEL

- 1 Viewing mode button
- 2 Display
- 3 Viewing mode LED
  - 3 A Charge current
  - 3 B Charge voltage
  - 3 C Charge percentage
  - 3 D Battery charger temperature
  - 3 E Float mode
- 4 Alarm LED
- 5 Battery selection LED
- 6 Battery selection button
- 7 Charge type selection button
- 8 Charge start button

## ALARM LED

Reverse polarity  
 Cell short-circuited  
 Cell broken  
 Short circuit  
 Wrong battery type

## TECHNICAL CHARACTERISTICS

	IDCHARGER 9.0	IDCHARGER 15
POWER SUPPLY	230 - 240 V - 1ph	230 - 240 V - 1ph
FREQUENCY	50 / 60 Hz	50 / 60 Hz
CHARGE VOLTAGE	12 V	12 V
INPUT POWER	100 W	180 W
CHARGE POSITIONS	3	3
INPUT CURRENT	0,8 A	1,2 A
CHARGE CURRENT	6 A	10 A
MAX. BATTERY CAPACITY	225 Ah	300 Ah
DIMENSIONS	120x170x245 mm	120x170x245 mm
WEIGHT	1,4 kg	1,4 kg
CODE	W000270866	W000270865

# ICHARGER



**WATERPROOF**

## ICHARGER

Intelligent battery chargers based on inverter technology equipped with microprocessor control. The microprocessor controls the charging process, dividing it into four stages to achieve greater charging efficiency. Due to the float functions, they can remain connected to the battery for long periods of time. They charge all types of batteries : PbWet - PbMF - PbAGM - PbGel .  
SMALL, LIGHTWEIGHT, WATERPROOF

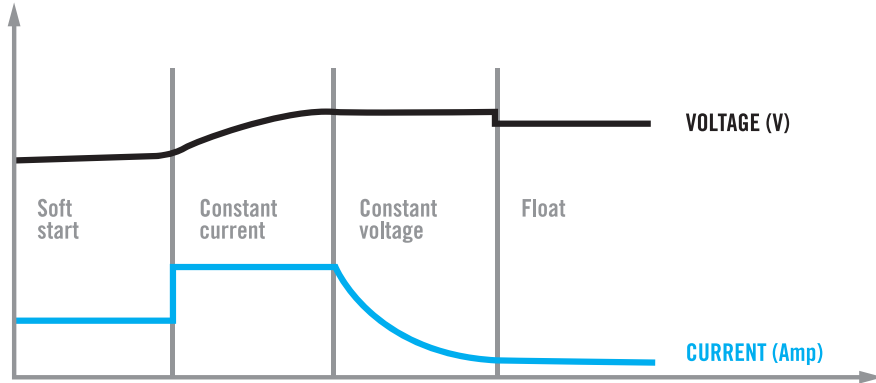


DIAGRAM OF CHARGE CHARACTERISTICS

## FOUR CHARGING STAGES

### SOFT START

Tests the state of the battery. Batteries with a very low charge require the soft start stage. The charge begins with a reduced current until the voltage reaches 12V.

### CONSTANT CURRENT

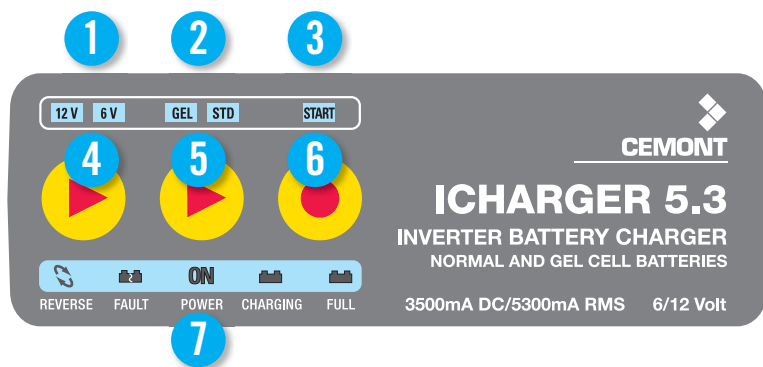
The main stage, in which the majority of the charge is provided (75-80%). The battery charger delivers the maximum current until the voltage at the terminals has reached the optimal voltage level

### CONSTANT VOLTAGE

Completes the charge of the battery, taking it to 100%. The voltage is kept constant while the current is lowered until the minimum levels are reached.

### FLOAT

The float charge at constant voltage, keeps the battery 100% fully charged.



## FRONT PANEL

- 1 Charge voltage LED
- 2 Battery type LED
- 3 Charge start LED
- 4 Charge voltage selector
- 5 Battery type selector
- 6 Charge start OK
- 7 LED

## ALARM LED

- Reverse polarity
- Battery fault
- Battery charge ON
- Charge indicator
- Charge complete indicator



## TECHNICAL CHARACTERISTICS

	ICHARGER 1.5	ICHARGER 5.3
POWER SUPPLY	230 - 240 V -1ph	230 - 240 V -1ph
FREQUENCY	50 / 60 Hz	50 / 60 Hz
CHARGE VOLTAGE	6/12 V	6/12 V
INPUT POWER	21 W	65 W
CHARGE POSITIONS	-	2
INPUT CURRENT	0,25 A	0,7 A
CHARGE CURRENT	1 A	3,5 A
MAX. BATTERY CAPACITY	35 Ah	120 Ah
DIMENSIONS	55x32x130 mm	75x40x160 mm
WEIGHT	0,40 kg	0,55 kg
CODE	W000270868	W000270867

# INTELLIGENT ENERGY: ICHARGER & IDCHARGER





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