
Hurricane SCR Battery Chargers Series

Operating Manual



12 volt – 12 amp
(for battery sweeper)
Code: 19473

24 volt – 12 amp
(for Hurricane 500 XTT
and Hurricane 600 XTT)
Code: 19465



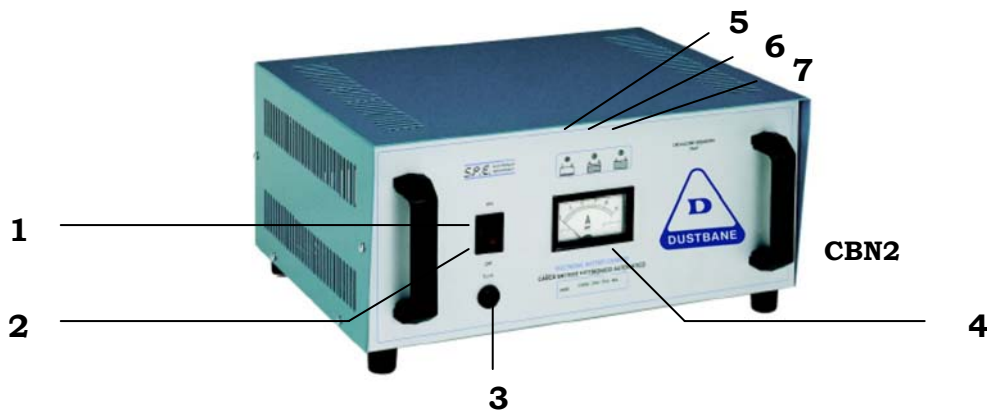
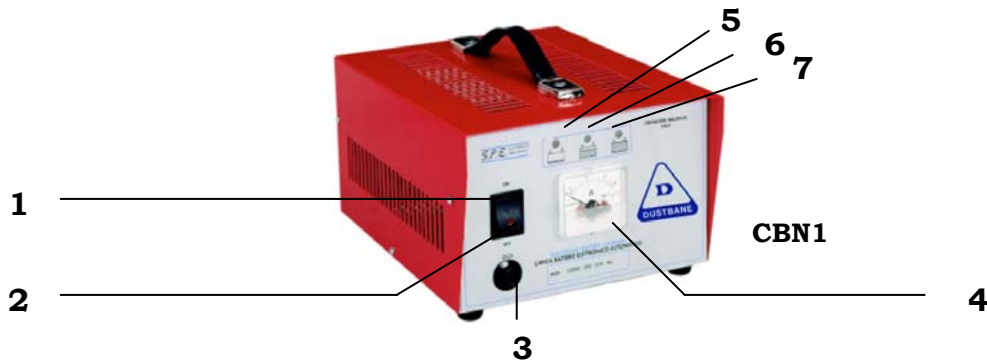
24 volt – 25 amp
(for Hurricane 700 XTT
and Hurricane 850 XTT)
Code: 19509

36 volt – 22 amp
(for Hurricane 900 XTT
and Hurricane 250 XT)
Code: 19468

Attention: Carefully read the operating manual before using the battery charger.

Edition: Oct. 15, 2004

FRONT PANEL CONTROLS



- | | |
|------------------------------|--|
| 1 – Main Switch | turns charger on and off |
| 2 – Power On Light | indicates power into unit and that fuse is OK |
| 3 – Fast Acting Fuse | blows in the event of a failure |
| 4 – Amp Meter | indicates charging current |
| 5 – Red Control Indicator | when lit it indicates start of charge cycle |
| 6 – Yellow Control Indicator | flashes to indicate 80% charge level is reached |
| 7 – Green Control Indicator | when lit it indicates that the charge cycle is completed |



OPERATING MANUAL

GENERAL INFORMATION ABOUT THIS CHARGER

- The device is a electronic automatic battery charger suitable for deep cycle flooded batteries.
- Fully automatic charging with electronic control, it is protected against overload, short-circuit and reversed polarity.

WARNINGS

- Never disconnect the battery while charging: this could cause sparks.
- Never use the equipment in the rain, in areas used for washing or in damp areas.
- Caution: the gases generated during recharging are explosive. Do not smoke in the vicinity of batteries. When working with cables and electrical equipment - avoid open flames or sparks.
- Before starting to charge, make sure the voltage of the equipment suits the voltage of the battery, that the charging current suits the capacity of the battery. In addition, make sure the rated input voltage of the charger suits the available supply voltage and the system is grounded.
- If necessary, replace the fuse with another of the same type and value as indicated on the rating plate.
- Use battery chargers only in well ventilated areas.
- Pay attention to any warnings and recommendations of the battery manufacturer.

BATTERY CARE

- Attention: Use protective glasses and gloves during battery maintenance. Battery acid causes injuries. In case of contact with battery acid, wash the affected parts with fresh water and consult a doctor if necessary.
- Check fluid level before charging to make sure plates are covered.
- Top up the water level only after charging.
- Refill with distilled water only. Do not use tap water.
- Keep terminals and battery casing clean.

OPERATION

- Put the main switch (1) in the “ OFF” position and connect the AC cord to the power supply.
- Connect the battery charger to the batteries – observing correct polarity.
- Move the switch (1) to “ON”, thus starting the automatic charging cycle. The status of the charging cycle is indicated by the red, yellow and green indicators (5), (6), and (7).
- At the end of the charge, when the green indicator is on, put the main switch (1) in the “OFF” position and disconnect the battery.

Troubleshooting

PROBLEMS	POSSIBLE SOLUTIONS
The power on light (2) does not switch on.	Check that the charger is connected to the mains supply. Check that the fuse is not blown.
The charging cycle does not start:: the amp meter (4) reads “0”, the power on light (2) is on and the red control indicator (5) is off.	Check the connection to the battery and make sure that the polarity is correct.
The charging cycle does not start:: the amp meter (4) reads “0”, the power on light (2) is on and the red control indicator (5) is lit.	Check the battery for possible faults or defects. Make sure the battery is not too low in voltage – charging can only start if battery voltage is > 4V.
The yellow control indicator (6) does not light, even 15 hours after the start of the cycle.	Check the battery for faults or defects..

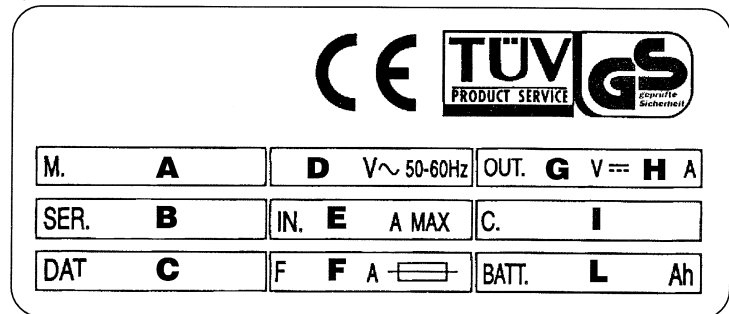
If the above guide does not resolve the problem, call your distributor for technical service.



RATING PLATE

The rating plate on the rear of the unit provides the following details:

- A – model
- B – serial number
- C – date of manufacture
- D – mains voltage
- E – input current
- F – fuse rating
- G – output voltage
- H – output current
- I – charging curve
- L – range of battery sizes possible



OTHER TECHNICAL DATA

- Storage Temperature Range: - 40 to +50 degrees Celcius
- Relative Humidity Range: 0 – 80%
- Operating Temperature Range: -10 to 50 degrees Celcius

REPAIRS

- Repairs must only be carried out by qualified personel.
- Use only original equipment manufacturers (OEM) parts for repairs.



Dustbane Chargers Parts List

12V-12a	24V-12a	24V-25a	36V-22a		
19473	19465	19509	19468	Part #	Description
X				19420	Complete connector CB 50 GREY
	X	X		19421	Complete connector CB 50 RED
			X	19422	Complete conector CB175 GREY
X	X	X	X	19423	Switch with pilot light
		X		19424	Fuse holder 6.3 x 32
X	X			19425	Fuse holder 5 x 20
		X	X	19426	Fuse 15a F 6.3 x 32
				19427	Fuse 8a F 6.3 x 32
X	X			19428	Fuse 6.3a F 5 x 20
X				19429	Card CBNPO15A assembled 12V 12A Wa
	X			19430	Card CBNPO15A assembled 24V 12A Wa
	X			19431	Card 15XX/3N 12/24V Wa
			X	19432	Card 15XX/3N 36V Wa
X				19433	Card CBNTLA 12V Wa
	X	X		19434	Card CBNTLA 24V Wa
			X	19435	Card CBNTLA 36V Wa
X	X			19436	AC power cord with plug, 3 x 18 awg
		X	X	19437	AC power cord with plug, 3 x 14 awg
X	X			19438	Bridge 2502
		X		19439	Diode 40HF20
		X		19440	Diode 40HFR20
		X		19441	SCR 50RIA20
		X		19442	Capacitor 2.2 uF
X	X			19443	Ammeter 15a CBN1
		X	X	19444	Ammeter 25a CBN2
X	X			19445	10 gauge DC cable set
		X	X	19446	8 gauge DC cable set