

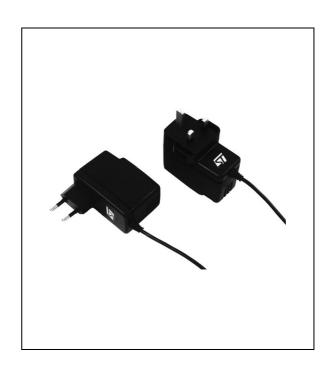
GSAC-8.507BC

BATTERY CHARGER

Туре	V _{in}	V _{out}	l _{out}
GSAC-8.507BC	230 V _{RMS}	8.5 V	700 mA

FEATURES

- Charge of NiCd or NiMH batteries
- Switch mode constant current generation
- Three level charging current (fast, trickle, zero charging current)
- Overcharge detection by ∆ V and ∆T/∆t under internal microprocessor control
- No discharge of the battery when charger is turned off
- Initial trickle charge for deeply discharged batter-
- Maximum battery voltage protectionMaximum battery temperature protection
- Timer back up protection
- Output short circuit protection
- Detection of fault battery
- Charge status displayed by LED
- European or UK plug



DESCRIPTION

The GSAC-8.507BC is a high efficiency battery charger for connection to the mains and to be used with 5 cells NiCd and NiMH batteries.

Two versions of the INPUT PLUG ADAPTOR are available:

EUROPEAN VERSION: GSAC-8.507BC-1 (ORDERING NUMBER)

UK VERSION: GSAC-8.507BC-2 (ORDERING NUMBER)

(See pag. 3 for mechanical data)

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ELECTRICAL CHARACTERISTICS (T_{amb} = 25°C unless otherwise specified)

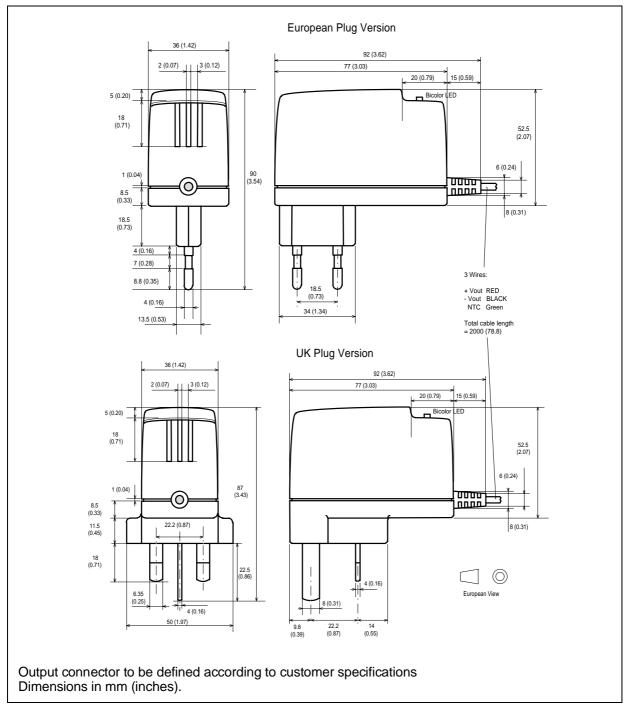
Symbol	Parameter	Test Conditions	Min	Тур	Max	Unit
V _{in}	AC Input Voltage	I _{ch} = 0 to 0.7A	187	230	264	Vrms
I _{chf}	Fast Charge Current	Vin = 187 to 264 Vrms Vbattery = 5 to 8.2V	0.65	0.70	0.75	А
I _{cht}	Trickle Charge Current	Vin = 187 to 264 Vrms Vbattery = 1 to 5V or 0°C < Tbatt < 10°C or charge completed	20	30	40	mA
С	Returned Charge	Vin = 187 to 264 Vrms		95		%
V _{batt}	Maximum Battery Voltage Protection	Vin = 187 to 264 Vrms Ich = 0.7A	8.2	8.5	8.7	V
T _{co}	Battery Temperature Cut Off	Vin = 187 to 264 Vrms Ich = 0.0A		50		°C
t _{out}	Time Out Protection Duration	Vin = 187 to 264 Vrms Ich = 0.7A		2		hours
fs	Switching Frequency	Vin = 187 to 264 Vrms Ich = 0.03 to 0.7A		100		kHz
T _{op}	Operating Ambient Temperature Range		-20		+60	°C
T _{stg}	Storage Temperature Range		-25		+85	°C

Status	Condition
Red ON	- Fast charge (Ich = 0,7A)
Green ON	- Charge Completed (Ich = 0.03A) - Timer elapsed
Red Flashing	Anomalous battery conditions (lch = 0.0A) - Initial Tbattery < 0 °C - Initial Tbattery > 40 °C - Tbattery > 50 °C - Faulty battery
Green Flashing	(Ich = 0.03A) - Initial charge of deeply discharged batteries - 0 °C < Tbatt < 10 °C
OFF	Battery not connected

NOTES

- 1 The battery temperature detection is a function of the characteristics of the NTC resistor used inside the battery pack. Please consult factory.
- 2 Different fast charge and trickle charge currents,
- and different time out are available on request (Maximum charge current cannot exceed 1A).
- 3 For connector to the battery pack please consult factory.

CONNECTION DIAGRAM AND MECHANICAL DATA



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