



MISTRAL

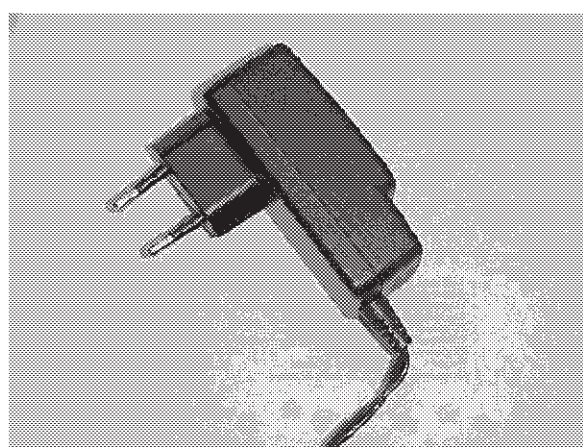
AC/DC Multirange FAST CHARGER

Rev. 01

FEATURES

- LINE VOLTAGE 90 - 264 VAC
- SINGLE OUTPUT MAX 8W
- DESIGNED FOR ON LINE CHARGING OF MOBILE PHONES
- EMC COMPLIANCE ACCORDING TO EU AND US DIRECTIVES
- SAFETY APPROVAL ACCORDING TO EN60950
- CE AND UL MARKED. AUSTRALIA, UK, SOUTH AFRICA AND CHINA MARKING UPON REQUEST
- OUTPUT CURRENT AND VOLTAGE LEVELS ACCORDING TO CUSTOMER REQUIREMENTS
- OUTPUT VOLTAGE PRECISION: +/- 5%
- OUTPUT CURRENT PRECISION : +/- 12%
- OUTPUT RIPPLE VOLTAGE <100 mVpp
- INPUT FUSE PROTECTION
- OUTPUT SHORT CIRCUIT PROTECTION
- 2 WIRES DC CORD TERMINATED WITH ANY CUSTOM CONNECTOR
- AVAILABLE WITH A VARIETY OF AC PLUGS
- LOW STAND BY POWER

PRODUCT VIEW



(Robin Housing, all plug types)

ORDERING NUMBER: GSAC-xxCCCy

Plug Type:	Part Number:
EURO	GSAC-xxCCC1
UK	GSAC-xxCCC2
US	GSAC-xxCCC3
AUSTRALIA	GSAC-xxCCC4
INDIA/S. Africa	GSAC-xxCCC5
CHINA	GSAC-xxCCC6
xx = Output Current level (2 Digits) CCC= Customer Identifier (3 Digits) y = plug type	

DESCRIPTION

The Fast Charger MISTRAL has been designed for charging NiMH and NiCd batteries in hand held mobile phones. MISTRAL is a low cost high efficiency AC/DC switching mode constant voltage & current generator. The output voltage and current levels are set up by design in accordance with customer requirements.

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Typical reference values in this datasheet are 8V, 700 mA with the input V_{ac} ranging from 90 to 264 Vrms.

Coming into the small Robin housing, MISTRAL can be assembled with a variety of AC plugs identified by specific ordering numbers. Interface to the phone is ensured via a 2 wires cord with strain relief, terminated with customer specified connector. Typical weight is 70 grams only, without cable.

AGENCY Approvals

The charger is certified by competent agencies to comply with most popular safety and EMC requirements, including but not limited to:

EN60950

UL1950

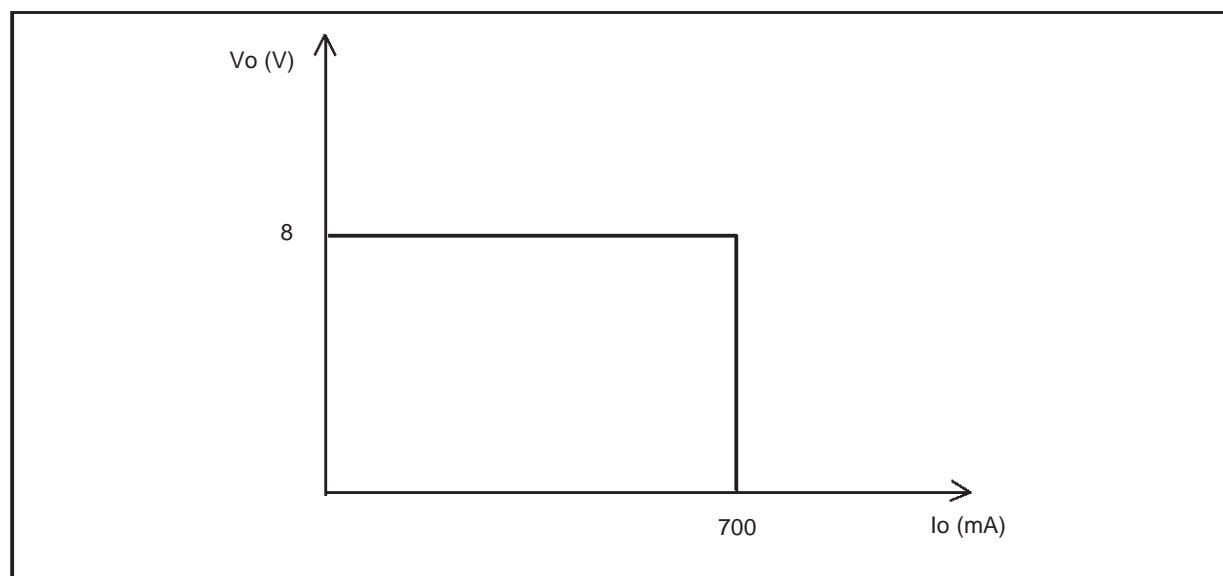
ETS300-342-1

FCC part 15 (specific version upon request)

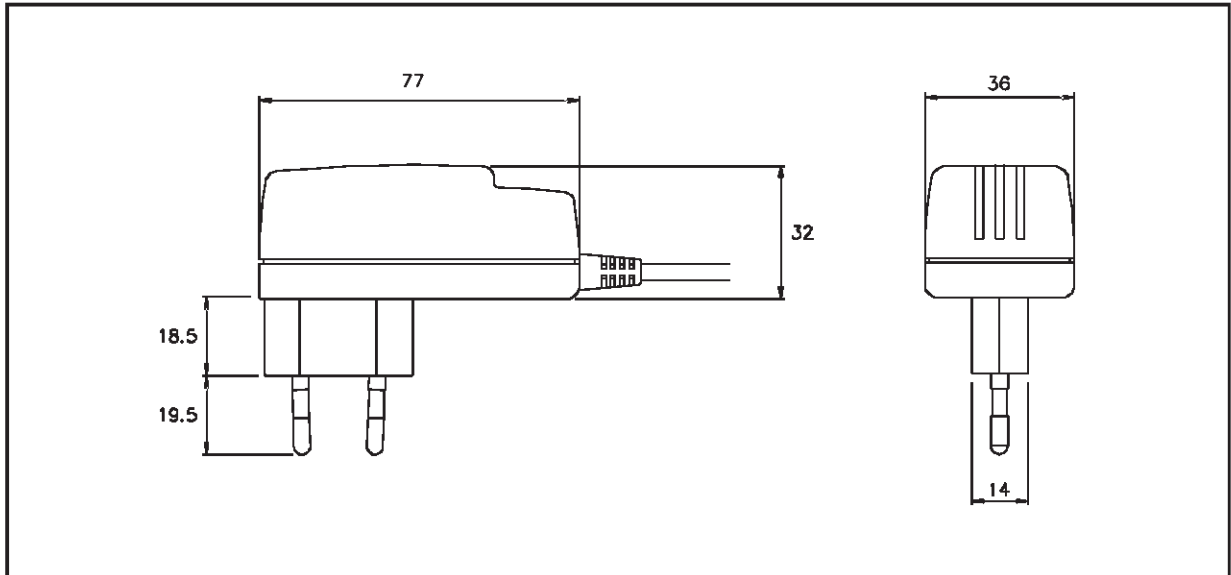
ELECTRICAL CHARACTERISTICS (Tamb=25°C, unless otherwise specified.)

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
V_i	Input Voltage		90		264	Vrms
V_o	Output Voltage limit	No load	7.6	8.0	8.4	V
I_o	Output Current limit	$1 < V_{out} < V_o$ limit	600	700	800	mA
V_{or}	Output Ripple	$I_o = I_{limit}$ $V_{batt} = 4V$			100	mVpp
V_{is}	Isolation voltage	Input to output, $t = 60s$ (EN60950)	3000			Vrms
T_{op}	Operating Temperature Ambient		0		50	°C
T_{stg}	Storage Temperature Range		-20		70	°C
η	efficiency			75%		

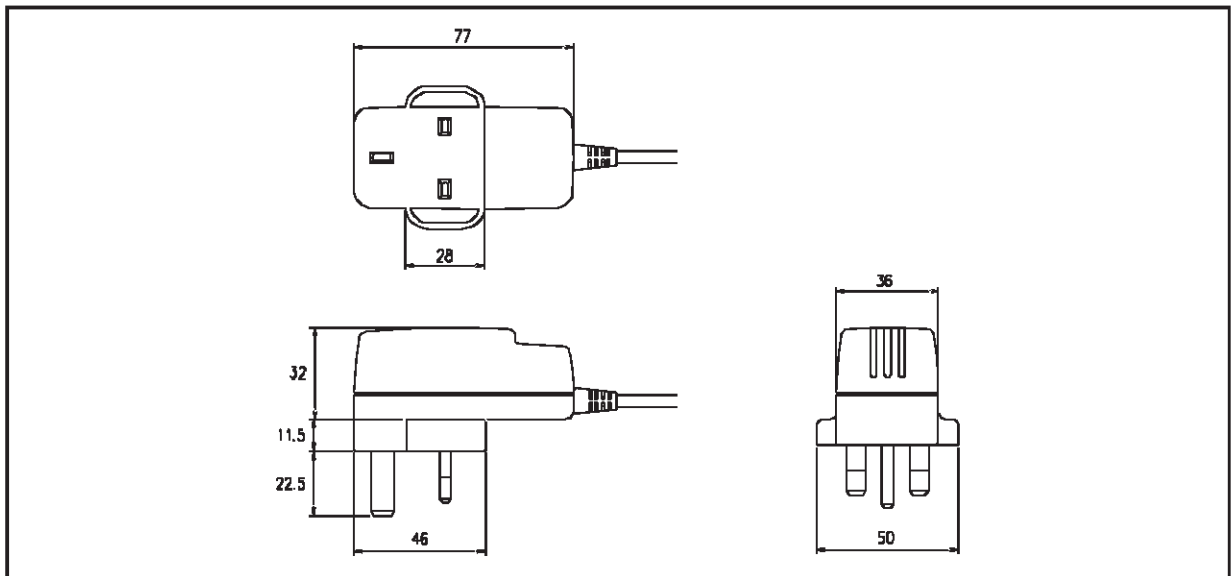
TYPICAL OUTPUT CHARACTERISTIC



MECHANICAL DATA EURO plug version (dimensions in mm)

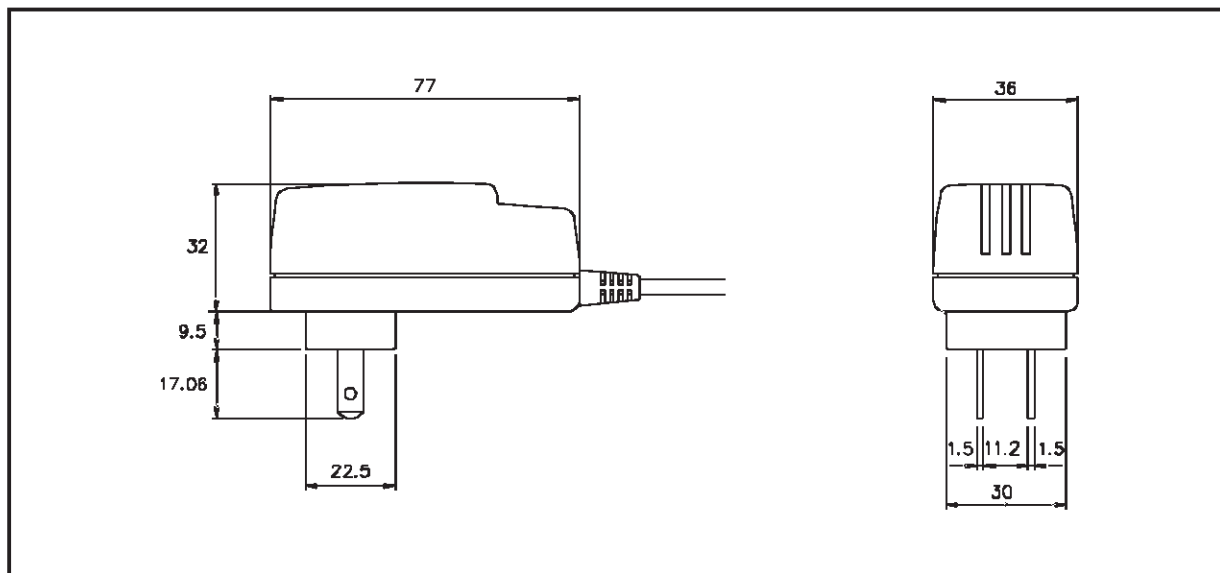


MECHANICAL DATA UK plug version (dimensions in mm)



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MECHANICAL DATA US plug version (dimensions in mm)



Fast Chargers SELECTION chart

PARAMETER	GHIBLI	MISTRAL	JOSEPH
INPUT VOLTAGE RANGE - Vrms	90 - 264	90 - 264	90 - 264
MAX OUTPUT POWER - Watt	8	8	4
OUTPUT VOLTAGE ACCURACY	+/- 5%	+/- 5%	+/- 10%
OUTPUT CURRENT ACCURACY	+/- 8%	+/- 12%	+/- 20%
OUTPUT VOLTAGE RIPPLE - mVpp	< 100	< 100	< 100
ISOLATION VOLTAGE- Vrms	> 3000	> 3000	> 3000
OPERATING AMBIENT TEMPERATURE - °C	0 - 50	0 - 50	0 - 50
STORAGE TEMPERATURE RANGE - °C	-20 +70	-20 +70	-20 +70
AC INPUT FUSE PROTECTION	YES	YES	YES
DC OUTPUT SHORT CIRCUIT PROTECTION	YES	YES	YES
WEIGHT (without cable) - Grams	70	70	70

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