



SWITCH MODE TRAVEL CHARGER

REV. 01

FEATURES

- ST PROPRIETARY VIPER TECHNOLOGY
- WIDE RANGE INPUT VOLTAGE
- SINGLE OUTPUT MAX 4W
- DESIGNED FOR ON LINE CHARGING OF MOBILE PHONES
- MTBF > 100000 HOURS
- LIFETIME 8000 HOURS TYP.
- EMC COMPLIANCE TO ETS300-342-1
- SAFETY COMPLIANCE TO EN60950, CSA/UL1950
- OUTPUT VOLTAGE PRECISION $\pm 5\%$
- OUTPUT CURRENT PRECISION $\pm 12\%$
- 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: AC PLUG SELECTION INCLUDES EUROPE, UK, US, AUSTRALIA, CHINA
- LOW STAND BY POWER
- CE MARKED. UL, AUSTRALIA, UK, SOUTH AFRICA AND CHINA MARKING UPON REQUEST



EURO PLUG

DESCRIPTION

The VIP Charger has been designed for charging NiMH, NiCd and Li-Ion batteries in GPRS hand held mobile phones.

VIP is a very low cost high efficiency AC/DC switching mode constant voltage & current generator built around ST Viper.

The output voltage and current levels are set up by design in accordance with customer requirements.

Typical output sets of value range from V_o 5 V, I_o 700 mA to V_o 6.5 V, I_o 540 mA.

Reference values in this data sheet are 6.5V, 540mA with the input ranging (90÷264 V_{rms}).

Coming into its light housing, VIP can be assembled with a variety of AC plugs identified by specific ordering numbers.

Typical weight is 50 grams only, without cable.

Plug Type	Ordering Number
EURO	GSAC-xxx/1
USA	GSAC-xxx/2
UK	GSAC-xxx/3
AUSTRALIA	GSAC-xxx/4
CHINA	GSAC-xxx/5

GSAC-VIP

ELECTRICAL CHARACTERISTICS ($T_{amb}=25^{\circ}\text{C}$, unless otherwise specified.) GSAC-xxx

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
V_i	Input Voltage		90		264	V_{rms}
V_o	Output Voltage	$0 < I_o < I_{limit}$	6.1	6.5	6.8	V
I_o	Output Current limit	$0 < V_o < V_{limit}$	480	540	600	mA
V_{or}	Output Ripple	$I_o=limit$ $V_o=4V$			100	mVpp
V_{is}	Isolation Voltage	Input to Output, $t=60s$ (EN60950)	3000			V_{rms}
T_{op}	Operating Ambient Temperature		-5		55	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range		-20		70	$^{\circ}\text{C}$
n	efficiency			75%		
	M.T.B.F.	$T_a=25^{\circ}\text{C}$ $I_o=540\text{mA}$	10^5			h
	Lifetime	$T_a=25^{\circ}\text{C}$ $I_o=540\text{mA}$		8000		h

AGENCY APPROVALS

The charger is compliant with most popular safety and EMC requirements, including but limited to:

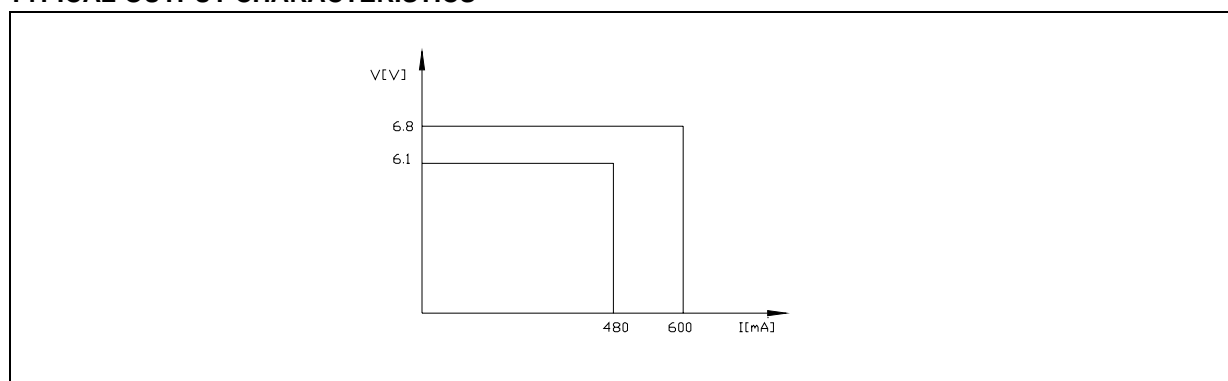
EN60950

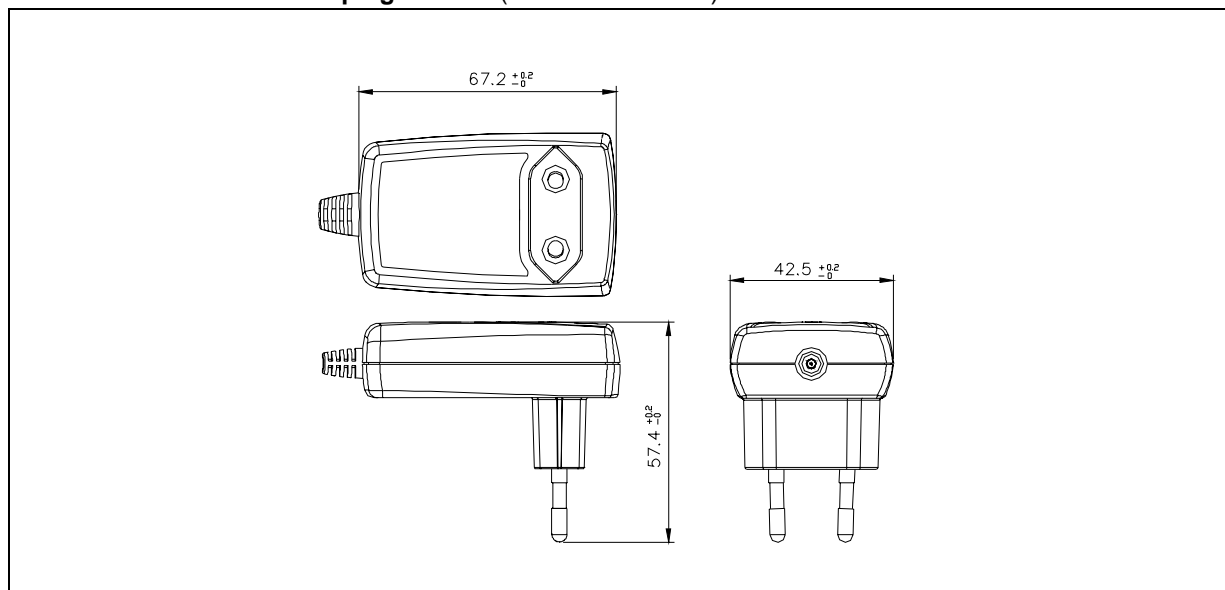
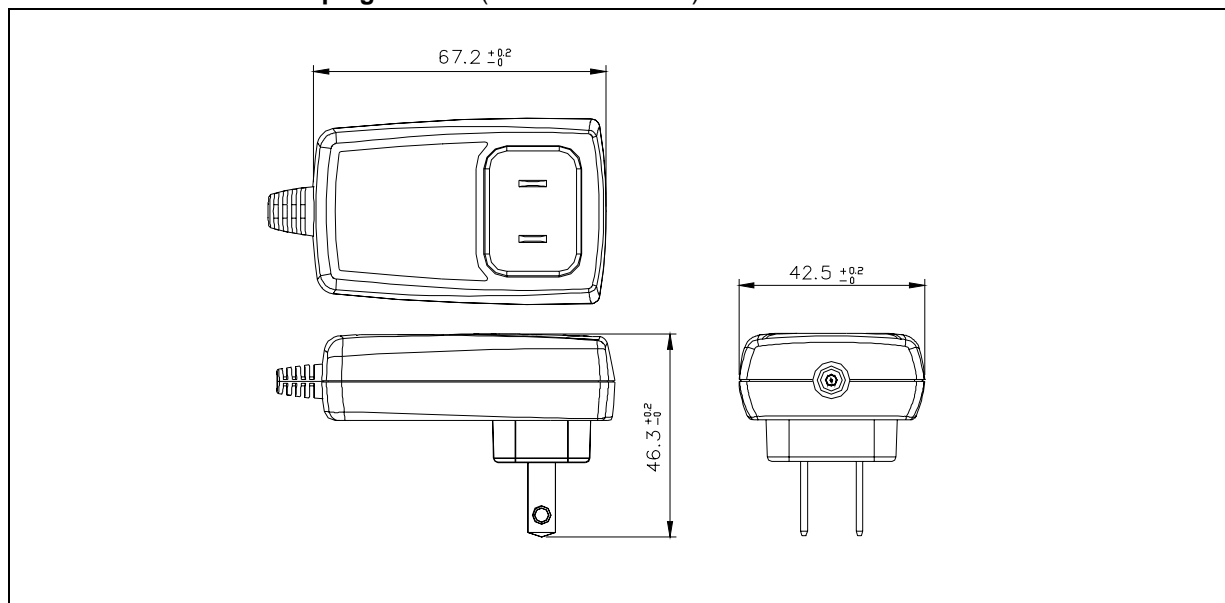
UL1950

ETS300-342-1

It is marked CE, other marking including UL, AUSTRALIA, UK, SOUTH AFRICA and CHINA are available upon request and agreement.

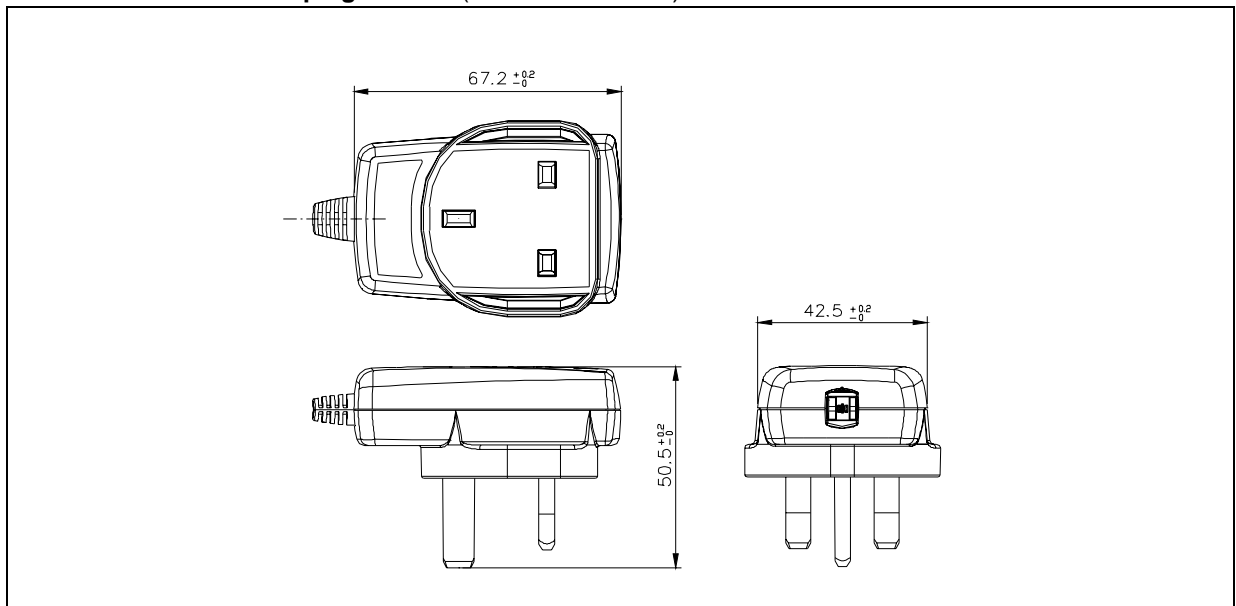
TYPICAL OUTPUT CHARACTERISTICS



MECHANICAL DATA EURO plug version (dimensions in mm)**MECHANICAL DATA USA plug version (dimensions in mm)**

GSAC-VIP

MECHANICAL DATA UK plug version (dimensions in mm)



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