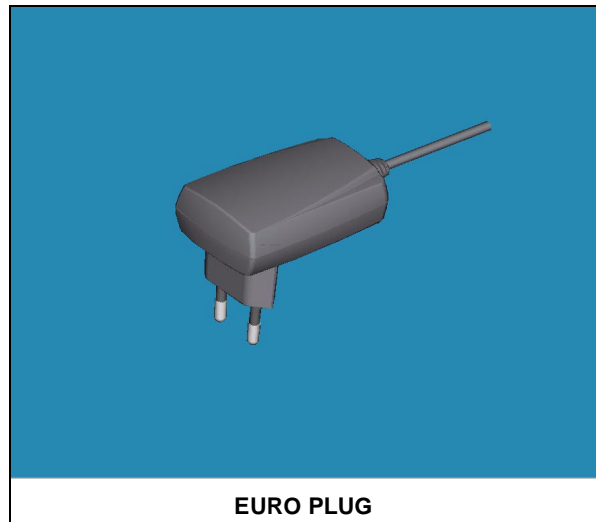


**SWITCH MODE TRAVEL CHARGER****PRELIMINARY****FEATURES**

- ST PROPRIETARY VIPER TECHNOLOGY
- WIDE RANGE INPUT VOLTAGE
- SINGLE OUTPUT MAX 4W
- DESIGNED FOR ON LINE CHARGING OF MOBILE PHONES
- EMC COMPLIANCE ETS300-342-1
- SAFETY APPROVAL ACCORDING TO EN60950, CSA/UL1950
- 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 $\pm 5\%$
- OUTPUT CURRENT PRECISION $\pm 20\%$
- 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

**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 reference values in this data sheet are 5V, 700 mA with the input ranging ($90 \div 264$ V_{rms}).

Coming into its light housing, VIP 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 50 grams only, without cable.

Plug Type	Ordering Number
EURO	GSAC-VIP12/1
UK	GSAC-VIP12/2
USA	GSAC-VIP12/3
AUSTRALIA	GSAC-VIP12/4
CHINA	GSAC-VIP12/5

VIP

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

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
V_i	Input Voltage		90		264	V_{rms}
V_o	Output Voltage limit	No load	4.85	5.1	5.35	V
V_o	Output Voltage	$I_o=560\text{ mA}$	4.7	5	5.3	V
I_o	Output Current limit	$0 < V_o < V_{limit}$	560	700	840	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%		

AGENCY APPROVALS

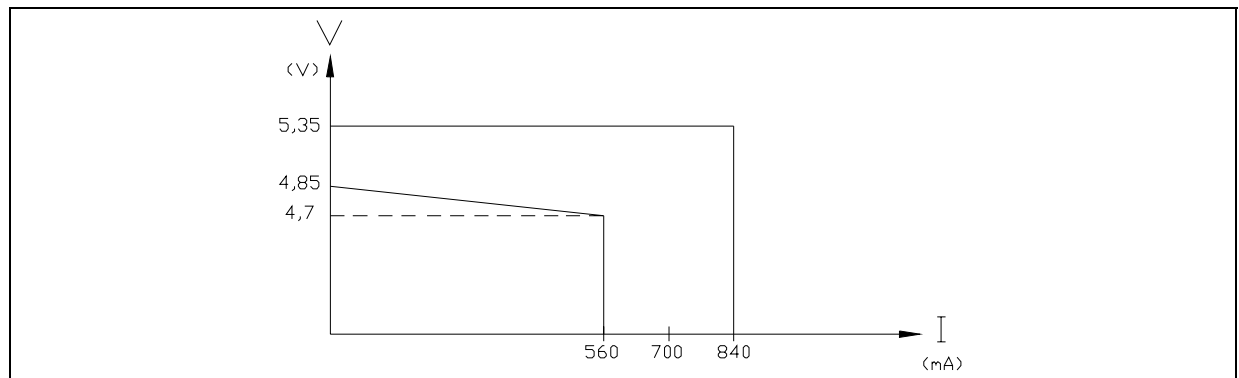
The charger is certified by competent agencies to comply with most popular safety and EMC requirements, including but limited to:

EN60950

UL1950

ETS300-342-1

TYPICAL OUTPUT CHARACTERISTICS



Information furnished is believed to be accurate and reliable. However, STMicroelectronics assumes no responsibility for the consequences of use of such information nor for any infringement of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of STMicroelectronics. Specifications mentioned in this publication are subject to change without notice. This publication supersedes and replaces all information previously supplied. STMicroelectronics products are not authorized for use as critical components in life support devices or systems without express written approval of STMicroelectronics.

The ST logo is a registered trademark of STMicroelectronics
© 2003 STMicroelectronics - All Rights Reserved

STMicroelectronics GROUP OF COMPANIES
Australia - Brazil - Canada - China - Finland - France - Germany - Hong Kong - India - Israel - Italy - Japan - Malaysia - Malta - Morocco -
Singapore - Spain - Sweden - Switzerland - United Kingdom - U.S.A.
<http://www.st.com>