



## POWER PLUG 15W

### AC/DC POWER SUPPLY

REV. 01

#### POWER PLUG FEATURES

- PRIMARY SWITCHED WALL PLUG-IN power supply
- EUROPEAN INPUT VOLTAGE 230 V<sub>ac</sub>
- 15W SINGLE OUTPUT
- EMC COMPLIANCE ACCORDING TO EU DIRECTIVES
- SAFETY APPROVAL ACCORDING TO EN60950 / EN60065
- CE MARKED
- OUTPUT VOLTAGE PRECISION:  $\pm 5\%$
- INPUT FUSE PROTECTION
- OUTPUT SHORT CIRCUIT PROTECTION
- 2 WIRES DC CORD 1.5 m TERMINATED WITH 5.5 mm (ext. diam.) / 2.5 mm (int. diam.) JACK CONNECTOR
- AVAILABLE WITH EU, UK PLUGS
- LOW STAND-BY POWER CONSUMPTION



EURO PLUG



UK PLUG

Plug Type	Ordering Number
EURO	GSPP-1212STM/1
UK	GSPP-1212STM/2

## POWER PLUG 15W

### POWER PLUG DESCRIPTION

The Power Plug is a high efficiency AC/DC switch mode constant voltage generator. Designed for a variety of residential applications, this wall plug-in power supply performs up to 15W output power.

Typical reference value for the off the shelf solution is 12V 1.25A.

Coming into a compact housing, the power plug can be assembled with EU or UK plugs identified by specific ordering numbers.

Output DC power is ensured via a 2 wires cord with strain relief, terminated with a barrel connector. Typical weight is 100 grams only, without cable.

### ELECTRICAL CHARACTERISTICS ( $T_{amb}=25^{\circ}\text{C}$ , unless otherwise specified.) GSPP-1212STM/x

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
$V_i$	Input Voltage		187		264	$V_{RMS}$
$I_o$	Output Current	$T_{ambient} = 40^{\circ}\text{C}$ , $V_i = 187 \div 264 V_{ac}$		2.5		A
$V_o$	Output Voltage	$V_i = 187 \div 264 V_{ac}$ , $I_o = 0 \div I_{max}$	11.4	12	12.6	V
$V_{or}$	Output Ripple	$I_o = I_{max}$			200	mVpp
$I_{osc}$	Output short circuit current	Hiccup Mode			2	A
n	Efficiency	$P_O = 15W$		85		%
$P_{stand\ by}$	Power consumption in no load condition	$V_i = 230 V_{RMS}$ , $I_o = 0 \text{ mA}$			300	mW
$V_{is}$	Isolation voltage	Input to output	3000			$V_{RMS}$
$T_{op}$	Operating Ambient Temperature		0		40	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature Range		-20		70	$^{\circ}\text{C}$

### AGENCY APPROVALS

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

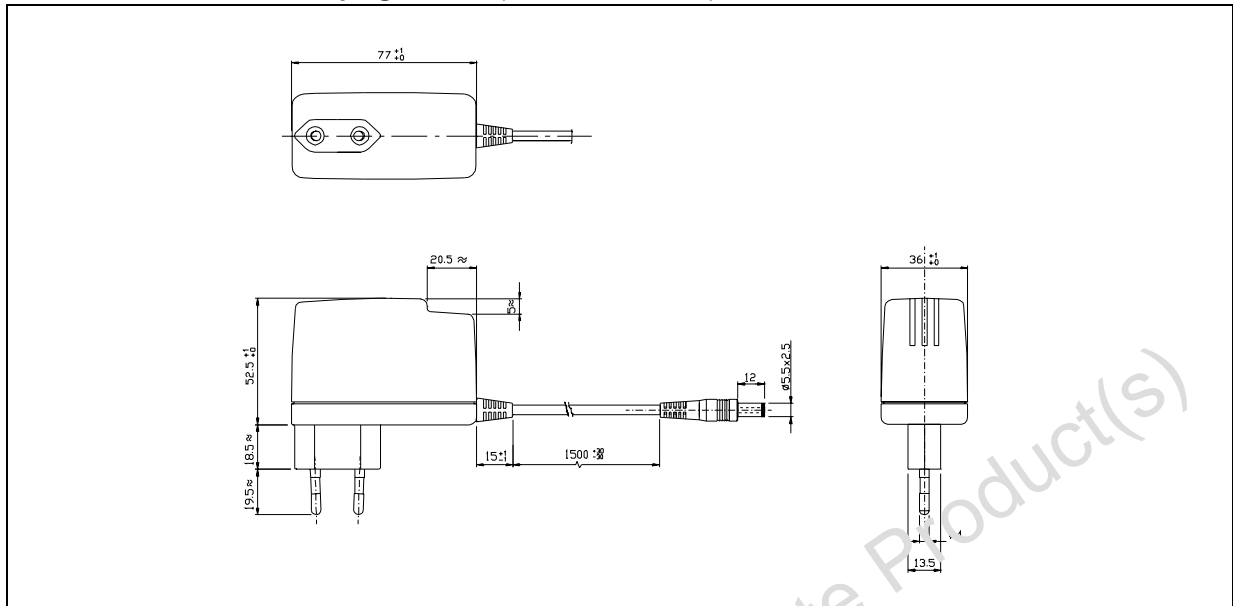
EN60950

ETS300-342-1

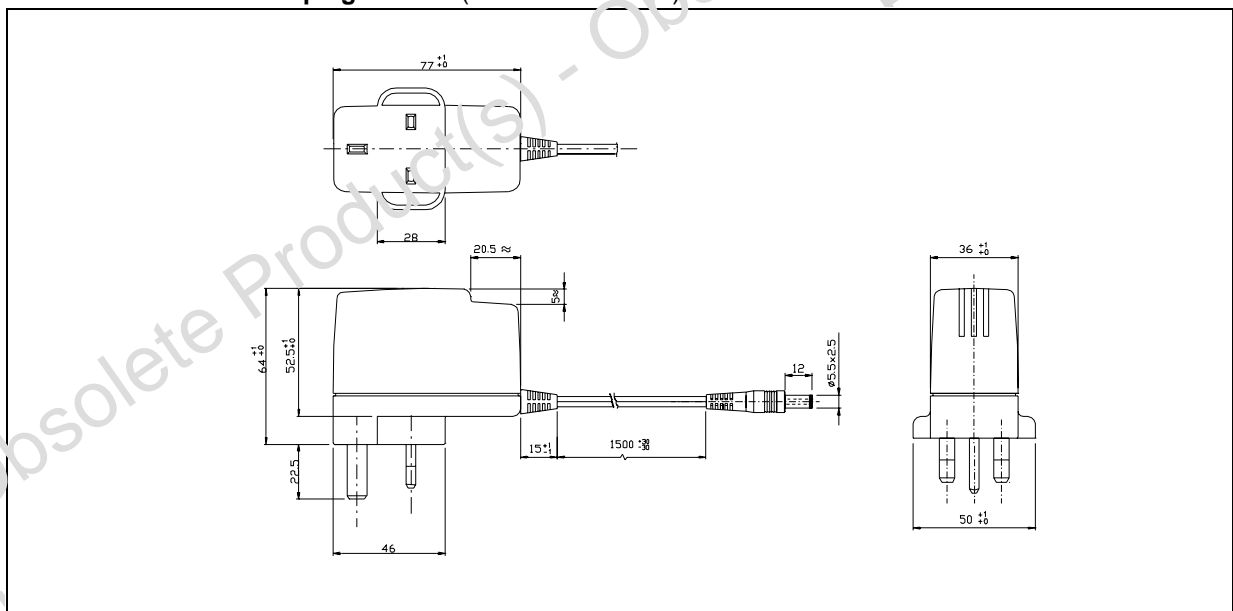
EN60065

EN55022 Cl B

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



**MECHANICAL DATA UK plug version (dimensions in mm)**



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.  
All other names are the property of their respective owners

© 2003 STMicroelectronics - All Rights Reserved

**STMicroelectronics GROUP OF COMPANIES**

Australia - Belgium - Brazil - Canada - China - Czech Republic - 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>