



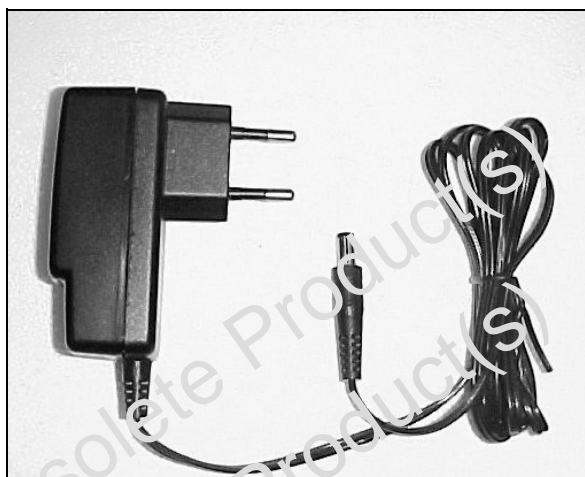
GSP-1216STM

AC/DC POWER SUPPLY

PRELIMINARY DATA

FEATURES

- EUROPEAN INPUT VOLTAGE 230 V_{ac}
- SINGLE OUTPUT MAX 20W
- EMC COMPLIANCE ACCORDING TO EU DIRECTIVES
- SAFETY APPROVAL ACCORDING TO EN60950 / EN60065
- 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.) / 2.1 mm (int. diam.) JACK CONNECTOR
- LOW STAND BY POWER CONSUMPTION
- AVAILABLE WITH EU PLUG
- CE MARKED



DESCRIPTION

The Power Plug is a high efficiency AC/DC switching mode constant voltage generator.

Designed for a variety of residential applications, this wall plug-in power supply performs up to 20W output power.

Typical reference value for the off the shelf solution is 12V 1.5A.

Coming into a compact housing, the power plug can be assembled with EU plug identified by a specific ordering number.

Output DC power is ensured via a 2 wires cord with strain relief, terminated with a barrel connector.

Typical weight is 52 grams only, without cable.

UPON REQUEST

Upon request and agreement, the power supply can be customized offering different current/voltage level, a variety of plugs (among which Uk, Us, etc.) and support to gain specific Agency Approvals, as well.

Table 1. Electrical Characteristics ($T_{amb}=25^{\circ}\text{C}$, unless otherwise specified.)GSP-1216STM/x

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
V_i	Input Voltage		187		264	V_{RMS}
I_o	Output Current	$T_{ambient} = 40^{\circ}\text{C}$, $V_i = 187 \div 264 V_{ac}$			1.6	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	$I_o = I_{max}$			100	mVpp
I_{osc}	Output short circuit current	Hiccup Mode			2	A
n	Efficiency	$P_O = 20\text{W}$		85		%
$P_{stand\ by}$	Power losses 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

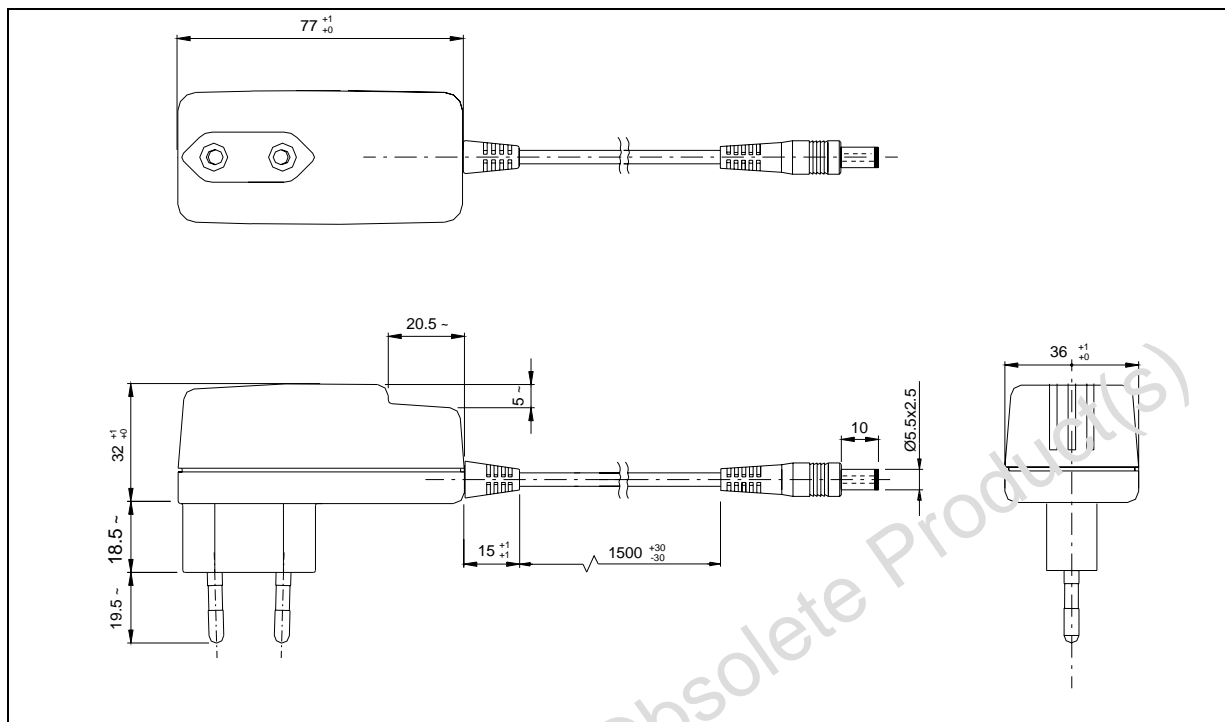
The Power Plug is certified by competent agencies to comply with most popular safety and EMC requirements, including but not limited to:

EN60950

ETS300-342-1

EN60065

EN55022 Cl B

Figure 1. Mechanical Data Euro Plug version (dimensions in mm)**Figure 2. Ordering Information Scheme**

GSP-1216STM/n	
Plug Type	
n = 1 Euro Plug, standard	
n = 2 Uk Plug, available upon request	

Table 2. Revision History

Date	Revision	Description of Changes
11-Mar.-2005	1	First Release
24-May-2005	2	New Jack 2.5 mm Internal Diameter

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