



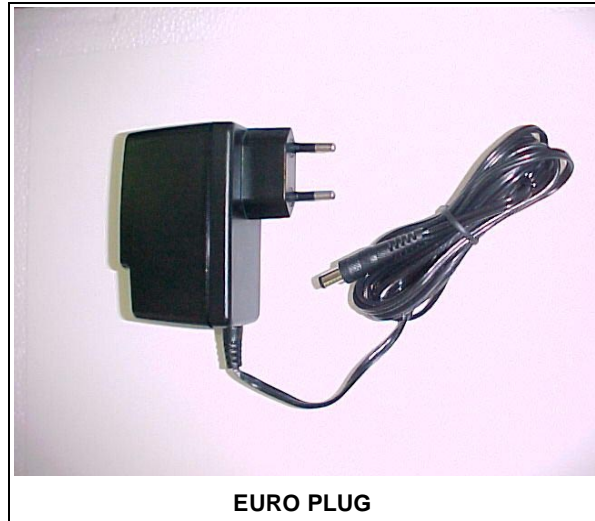
POWER PLUG 15W

AC/DC POWER SUPPLY

REV. 01

FEATURES

- PRIMARY SWITCHED WALL PLUG-IN power supply
- FIXED INPUT VOLTAGE $230V_{ac} \pm 15\%$
- 15 W SINGLE OUTPUT
- EMC COMPLIANCE ACCORDING TO EU DIRECTIVES
- SAFETY APPROVAL ACCORDING TO EN60950 / EN60065
- CE MARKED
- OUTPUT VOLTAGE PRECISION: $\pm 5\%$
- OUTPUT RIPPLE VOLTAGE $< 200 \text{ mVpp}$
- INPUT FUSE PROTECTION
- OUTPUT SHORT CIRCUIT PROTECTION
- 2 WIRES DC CORD TERMINATED WITH 5.5 mm (ext. diam.) / 2.5 mm (int. diam.) JACK CONNECTOR
- AVAILABLE WITH EU and UK PLUGS
- COMPLIANT with ETSI STAND BY POWER LOSSES REQUIREMENTS



Plug Type	Ordering Number
EURO	GSAC-1510STM/1
	GSAC-1212STM/1
UK	GSAC-1510STM/2
	GSAC-1212STM/2

DESCRIPTION

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

POWER PLUG 15W

design in accordance with customer requirements.

Typical reference values for the off shelf solution are 12V and 1,2A or 15V and 1,0A with the input V_{ac} ranging from 187 to 264 V_{rms} . Coming into a compact housing, the Power Plug can be assembled with EU and 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 85 grams only, without cable (euro plug).

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

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
V_i	Input Voltage	$I_o = 0$ to 1.25 A	187		264	V_{RMS}
I_o	Output Current	$V_i = 187$ to 264 V_{rms}			1.2	A
V_o	Output Voltage	$V_i = 187$ to 264 V_{RMS} $I_o = 1.2$ A	11.4	12	12.6	V
V_{or}	Output Ripple	$V_i = 187$ to 264 V_{RMS} $I_o = 1.2$ A			150	mVpp
I_{osc}	Output short circuit current	$V_i = 187$ to 264 V_{RMS}			2.5	A
n	Efficiency	$V_i = 230$ V_{RMS} $I_o = 1.25$ A		80		%
$P_{stand\ by}$	Power losses in no load condition	$V_i = 230$ V_{RMS} $I_o = 0$ mA			500	mW
V_{is}	Isolation voltage	Input to output	3000			V_{RMS}
T_{op}	Operating Ambient Temperature		0		40	$^{\circ}C$
T_{stg}	Storage Temperature Range		-20		70	$^{\circ}C$

ELECTRICAL CHARACTERISTICS ($T_{amb}=25^{\circ}\text{C}$, unless otherwise specified.) GSAC-1510STM/x

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
V_i	Input Voltage	$I_o = 0$ to 1.0 A	187		264	V_{RMS}
I_o	Output Current	$V_i = 187$ to 264 V_{rms}			1.0	A
V_o	Output Voltage	$V_i = 187$ to 264 V_{RMS} $I_o = 1.0$ A	14.25	15	15.75	V
V_{or}	Output Ripple	$V_i = 187$ to 264 V_{RMS} $I_o = 1.0$ A			150	mVpp
I_{osc}	Output short circuit current	$V_i = 187$ to 264 V_{RMS}			2.5	A
η	Efficiency	$V_i = 230$ V_{RMS} $I_o = 1.0$ A		80		%
$P_{stand\ by}$	Power losses in no load condition	$V_i = 230$ V_{RMS} $I_o = 0$ mA			500	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:

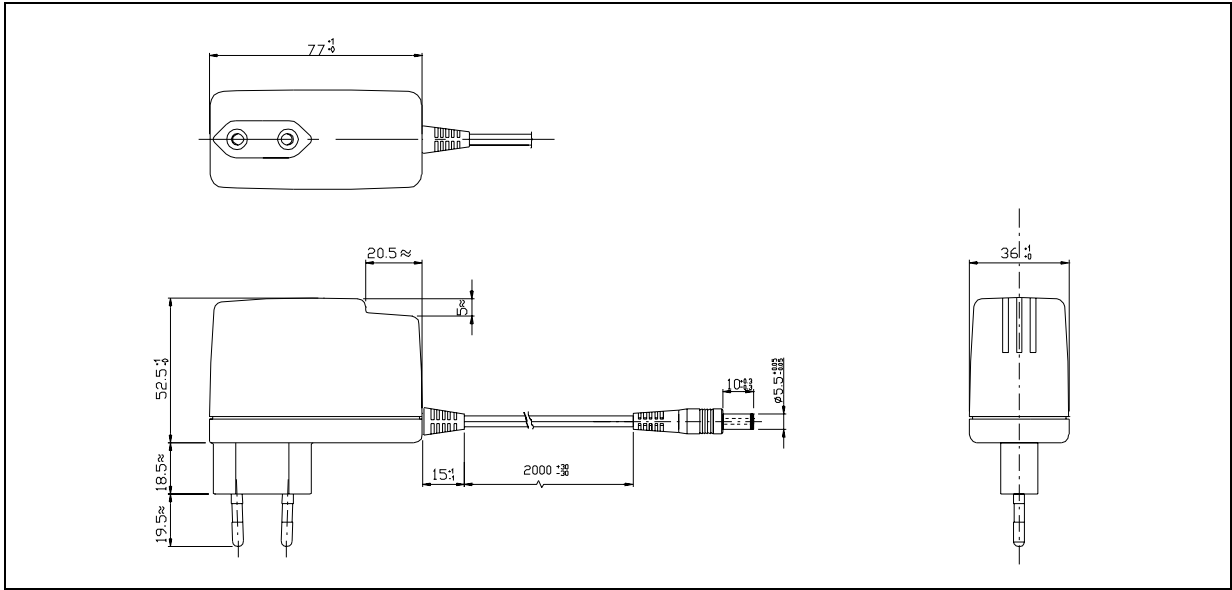
EN60950

EN60065

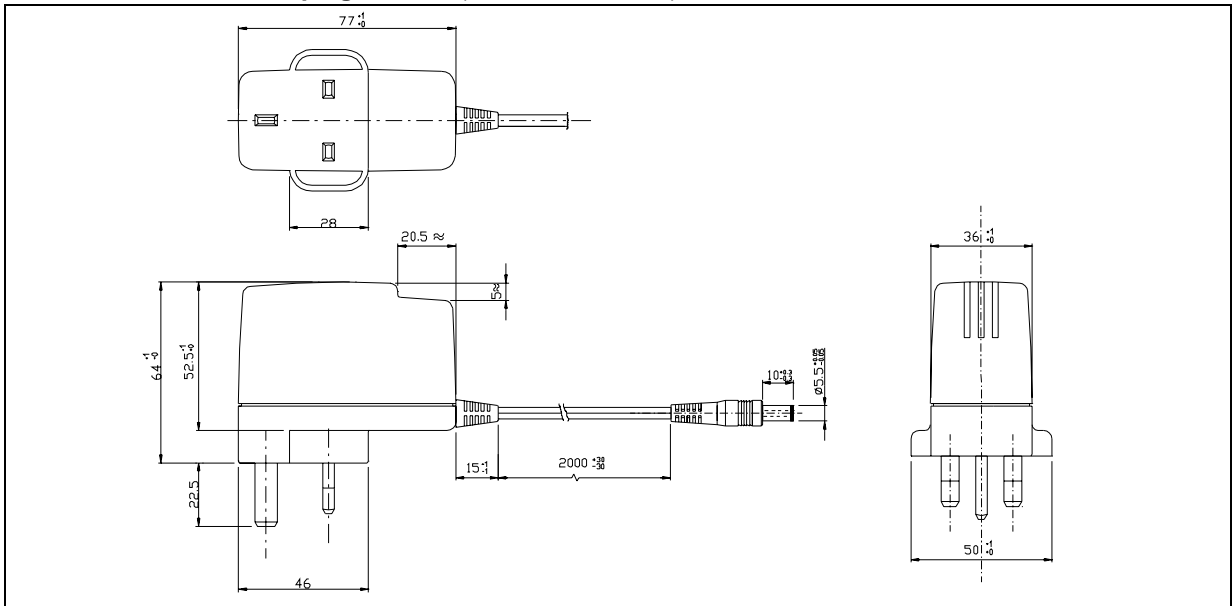
ETS300-342-I

POWER PLUG 15W

MECHANICAL DATA EURO plug version (dimensions in mm)



MECHANICAL DATA UK plug version (dimensions in mm)



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