



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 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

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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:

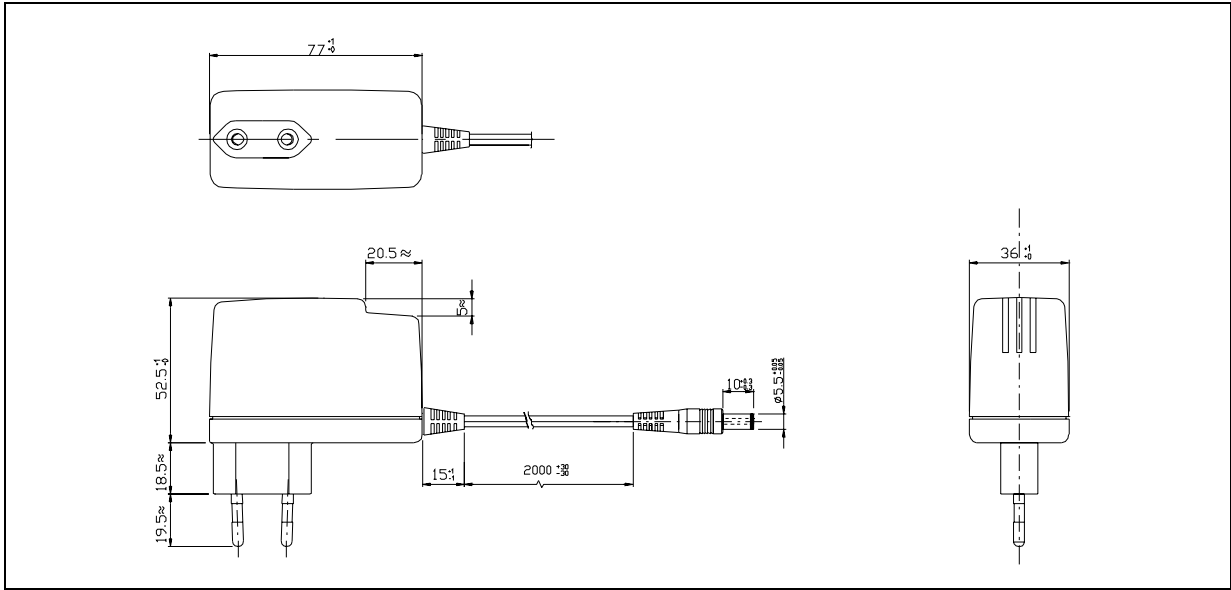
EN60950

EN60065

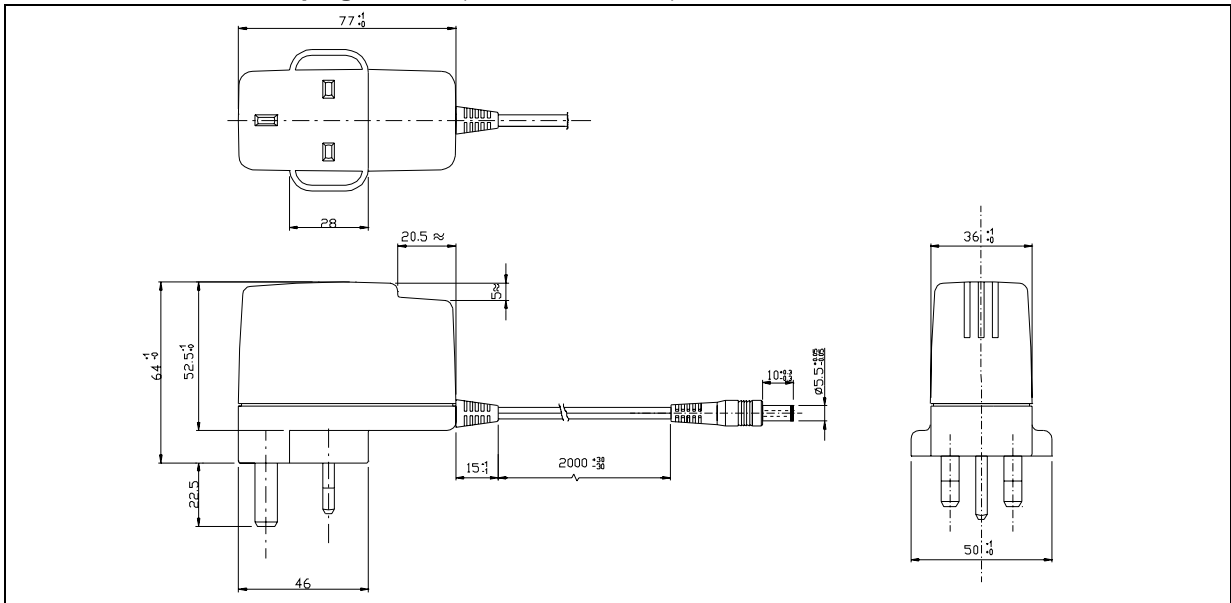
ETS300-342-I

POWER PLUG 15W

MECHANICAL DATA EURO plug version (dimensions in mm)



MECHANICAL DATA UK plug version (dimensions in mm)



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