

POWER PLUG 10W

WALL PLUG POWER SUPPLY

REV. 01

POWER PLUG FEATURES

- PRIMARY SWITCHED WALL PLUG-IN power supply
- FIXED INPUT VOLTAGE 230Vac ±15%
- 10 W SINGLE OUTPUT
- EMC COMPLIANCE ACCORDING TO EU DIRECTIVES
- SAFETY APPROVAL ACCORDING TO EN60950 / EN60065
- CE MARKED
- OUTPUT VOLTAGE PRECISION: ±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	Part Number			
EURO	GSACJ-1507STM/1			
	GSACJ-1208STM/1			
UK	GSACJ-1507STM/2			
	GSACJ-1208STM/2			





POWER PLUG 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 10W max output power. The output voltage and current levels are set up by design in accordance with customer requirements.

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Typical reference values for the off shelf power plug are 15V/650MA and 12V/800mA 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 52 grams only, without cable (euro plug).

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C, unless otherwise specified.) GSACJ-1208STM/x

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Unit
Vi	Input Voltage	I _o = 0 to 800mA	187		264	V _{RMS}
Io	Output Current	Vi = 187 to 264 V _{rms}			800	mA
Vo	Output Voltage	V _i = 187 to 264 V _{RMS} I _o = 800mA	11.4	12	12.6	V
Vo	Output Voltage	V_i = 187 to 264 V_{RMS} I_0 = 0 mA			12.6	V
V _{or}	Output Ripple	V _i = 187 to 264 V _{RMS} I _o = 800mA			150	mVpp
I _{osc}	Output short circuit current	V _i = 187 to 264 V _{RMS}			1.9	Α
n	Efficiency	V _i = 230 V _{RMS} P _O = 10 W		80		%
P _{stand} by	Power losses in no load condition	V _i = 230 V _{RMS} I _o = 0 mA			300	mW
Vis	Isolation voltage	Input to output	3000			V _{RMS}
T _{op}	Operating Ambient Temperature		0		40	°C
T _{stg}	Storage Temperature Range		-20		70	°C

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ELECTRICAL CHARACTERISTICS (T_{amb}=25°C, unless otherwise specified.)GSACJ-1507STM/x

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Unit
Vi	Input Voltage	I _o = 0 to 650mA	187		264	V _{RMS}
Io	Output Current	Vi = 187 to 264 V _{rms}			650	mA
Vo	Output Voltage	V _i = 187 to 264 V _{RMS} I _o = 650mA	14.25	15	15.75	V
Vo	Output Voltage	V_i = 187 to 264 V_{RMS} I_0 = 0 mA			15.75	V
Vor	Output Ripple	V _i = 187 to 264 V _{RMS} I _o =650mA			150	mVpp
I _{osc}	Output short circuit current	V _i = 187 to 264 V _{RMS}			1.9	Α
n	Efficiency	V _i = 230 V _{RMS} P _O = 10 W		81		%
P stand	Power losses in no load condition	V _i = 230 V _{RMS} I _o = 0 mA			300	mW
Vis	Isolation voltage	Input to output	3000			V _{RMS}
T _{op}	Operating Ambient Temperature		0		40	°C
T _{stg}	Storage Temperature Range		-20		70	°C

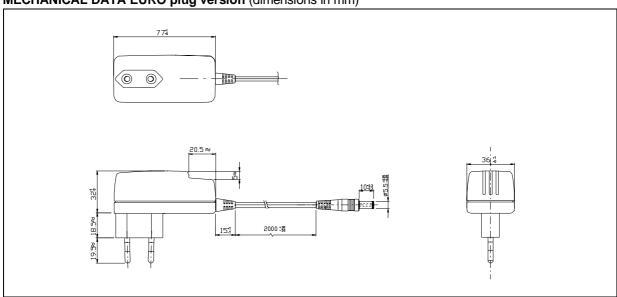
AGENCY APPROVALS

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

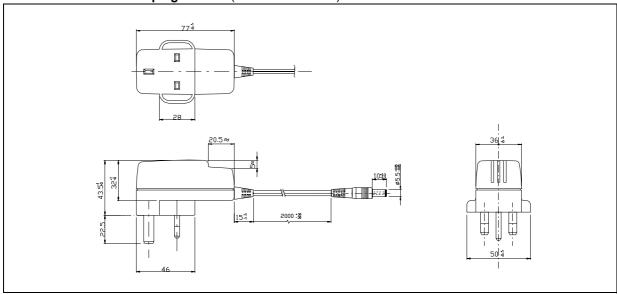
EN60950

EN60065

MECHANICAL DATA EURO plug version (dimensions in mm)



MECHANICAL DATA UK plug version (dimensions in mm)



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