ESPE-1005-W2E Micro USB

▪ premium quality plug type 5 V Micro USB power supply

FEATURES:
▪ compact design
▪ high power output
▪ premium class design
▪ safe and reliable power source
▪ high efficiency

APPLICATIONS:
▪ consumer electronics
▪ office equipment
▪ general purpose
▪ computer devices

ESPE-1005-W2E Micro USB is a compact and efficient 10-watt wall-mounted style power unit for various types of electronic devices with Micro USB. It is based on high quality electronic components that allow continuous, long-lasting work in all conditions. It is reliable, fully secured and stable. It provides high efficiency and excellent specification.
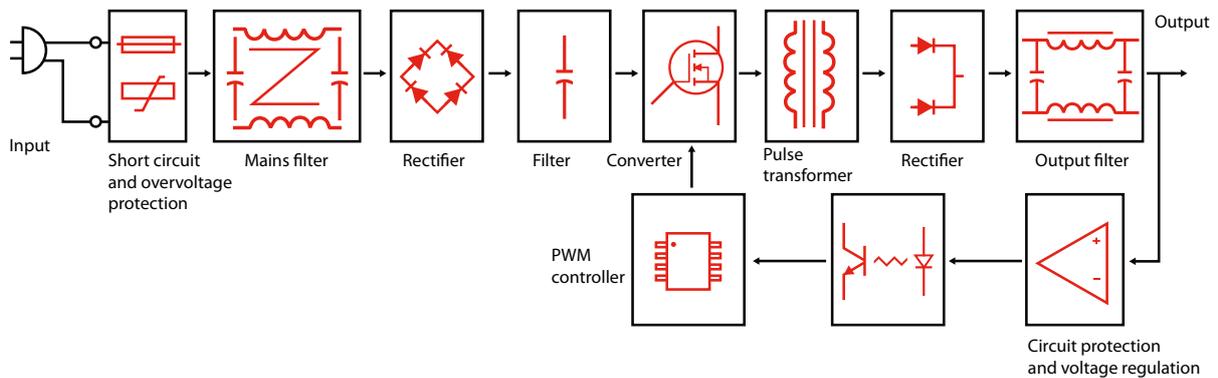
TECHNICAL SPECIFICATION

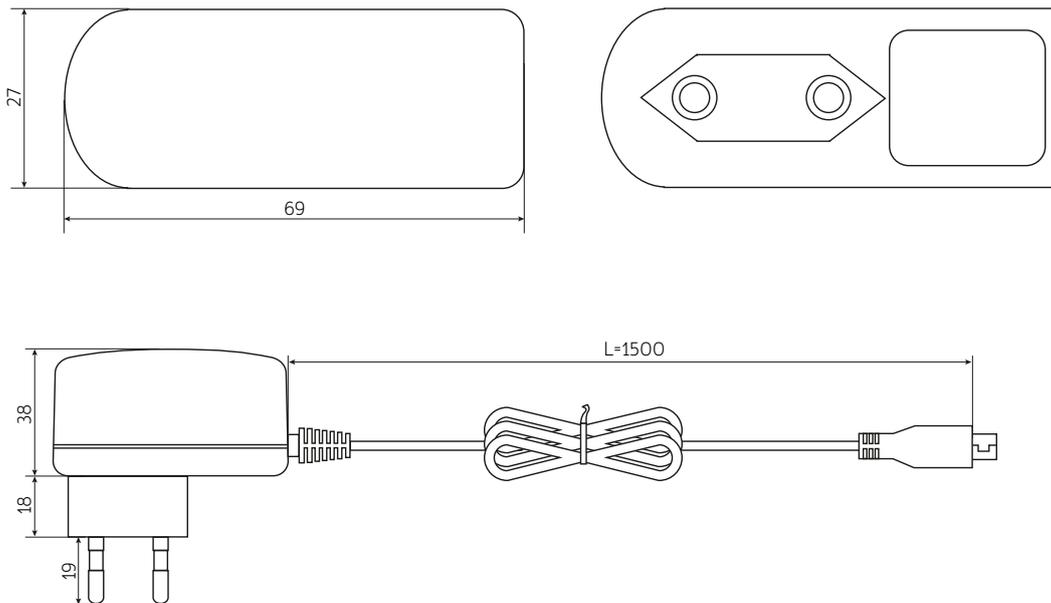| Group	Parameter	Value	Conditions
Input	Rated input voltage	100-240 VAC	
	Input voltage range	90-264 VAC	
	Mains frequency range	47-63 Hz	
	AC current (max.)	0.3 A	At 100 VAC and full load
	Inrush current (max.)	30 A	
	No load power consumption	0.3 W	
	Input leakage current (max.)	0.25 mA	At 264 VAC
	Power factor correction	No	
Output	Rated output voltage	5 V	
	Rated output power	10 W	
	Rated output current	2 A	
	Efficiency	75%	At 230 VAC
	Line regulation	±3%	
	Load regulation	±5%	
	Ripple and noise	200 mVp-p	At 100 VAC
	Minimal output current	No	
	Hold up time (max.)	5 ms	At 100 VAC and full load
	DC voltage rise time (max.)	40 ms	At 100 VAC and full load
	Turn on delay time (max.)	3 s	At 100 VAC and full load
Environmental	Working temperature	0 to +40℃	
	Working humidity	25% to 75% RH	40℃
	Storage temperature	-10℃ to +80℃	
	Cooling method	Free air circulation	
Protection	Short circuit	Yes	
	Overcurrent	Yes	
	Output overvoltage	Yes	
	Automatic recovery on fault remove	Yes	
Safety and EMC	Withstand isolation voltage	3 kVAC (input to output)	5 mA, 1 min
	Isolation resistance	100 MΩ	500 VDC
	Isolation class	2	
	Safety compliance	EN60950-1	
	EMC compliance	EN55022 class B	
	Marking	RoHS, CE	
Mechanical and features	Enclosure	Black ABS plastic	
	Size	69 x 27 x 38 mm	L × W × H
	Weight	92 g	
	Output connector	Micro USB	
	Input connector	EU 2-pole plug	
	Output cable	1.5 m	0,82 mm²
	Single package	85 x 52 x 70 mm	
	Packing	450 x 285 x 310 mm	100 pieces
	Manufacturing	China	
	Warranty	3 years	

Notes:
Unless otherwise stated, all parameters are specified at 230 VAC input voltage, 50 Hz, ambient temperature 25℃ and relative humidity 70% for rated load output. The values of parameters related to the output voltage regulation is measured from low to high line or for load changes from 0 to 100%, respectively. The power supply is considered as an independent unit, but the final equipment still need to reconfirm that the whole system complies with the EMC directives. If the PSU is installed in the final device as a subassembly, the tests should be repeated to verify that the system has been met compliance. Detailed technical data are available on request.
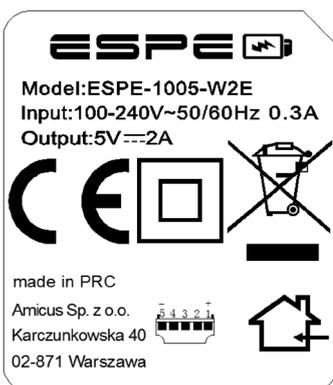
BLOCK DIAGRAM

Input

Short circuit and overvoltage protection

Mains filter

Rectifier

Filter

Converter

Pulse transformer

Rectifier

Output filter

Output

PWM controller

Circuit protection and voltage regulation

MECHANICAL SPECIFICATION

27

69

L=1500

38

18

19

PRODUCT LABEL

Model:ESPE-1005-W2E
Input:100-240V~50/60Hz 0.3A
Output:5V⎓2A

made in PRC
Amicus Sp. z o.o.
Karczunkowska 40
02-871 Warszawa

Legend to the label icons:

▫ – II safety class: no grounding is required, no dangerous voltage even in an emergency situation will appear on output

⌂ – power supply intended for indoor use only

⌧ – the product must not be disposed of in normal waste containers

MARKING SYSTEM

ESPE-1005-W2E Micro USB

- Output plug **Micro USB**
- Mains plug **W2E**
- Rated output voltage **5 V**
- Output power **10 W**
- Family **ESPE**

OTHER POWER SUPPLIES IN THIS SERIES

Model	ESPE-0605-W2E	ESPE-1005-W2E	ESPE-1005-W2E	ESPE-1505-W2E
Rated output voltage	5 V	5 V	5 V	5 V
Rated output current	1.2 A	2 A	2 A	3 A
Rated output power	6 W	10 W	10 W	15 W
DC plug	Jack DC prosty 2,1 × 5,5 × 11 mm	Micro USB	Jack DC prosty 2,1 × 5,5 × 11 mm	

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