

## High-quality desktop power supplies

### FEATURES:

- compact design
- reliable and powerful
- compliant with Energy Star Compliance Level VI and ErP Ecodesign (Ecoproject)
- high power output
- no load power consumption under 100 mW

### APPLICATIONS:

- consumer electronics
- telecommunication devices
- electronic office equipment
- hardware
- home and building automation system
- audio-visual equipment
- cash registers and vending machines



**E60T** is a series of small and efficient 60 W plug-in power supplies with universal application. Its design is based on high-quality electronic components that allow for continuous, long-term operation. It is reliable, fully protected and stable. Provides high efficiency and excellent specification. 5 years warranty included.

## TECHNICAL SPECIFICATION

Group	Parameter	E60T-6012	E60T-6024	Conditions
Input	Rated input voltage	100-240 VAC		
	Input voltage range	90-264 VAC		
	Mains frequency range	47-63 Hz		
	AC current (max.)	1.5 A		At 100 VAC and full load
	Inrush current (max.)	100 A	150 A	At 240 VAC
	No load power consumption	0.1 W	0.2 W	
	Input leakage current (max.)	0.25 mA		At 240 VAC
	Power factor correction	No		
	Power factor (typ.)	0.5		
Output	Rated output voltage	12 V	24 V	
	Rated output power	60 W		
	Rated output current	5 A	2.5 A	
	Energy efficiency	89%		At 230 VAC
	Energy conversion efficiency at 10% load	86%	83%	
	Energy efficiency class	DoE Level VI, ErP		
	Line regulation	±3%	±2%	
	Load regulation	±5%	±3%	
	Ripples and noise	100 mVp-p	150 mVp-p	At 100 VAC
	Minimal output current required	No		
	Hold up time (max.)	3 ms		At 100 VAC
	DC voltage rise time (max.)	100 ms		At 100 VAC
	Turn on delay time (max.)	1 s		At 100 VAC
Environmental	Working temperature range	-5 to +40°C		
	Working humidity range	5% to 95% RH		40°C
	Storage temperature range	-40°C to +85°C		
	Cooling method	Free air circulation		
Protection	Input: overvoltage (OVP), undervoltage (UVP)	OVP, UVP		
	Output: overcurrent (OCP), short circuit (SCP)	OCP (120-140%), SCP, OVP	OCP (120-150%), SCP, OVP	
	Output overvoltage protection	Yes, 19 V	Yes, 36 V	
	Transient voltage protection	Yes		MOV protection
	Thermal protection	Yes		
	Automatic recovery on fault remove	Yes		
Safety and EMC	Withstand isolation voltage (min.)	3 kVAC		Input to output, 5 mA, 1 min
	Isolation resistance (min.)	100 MΩ		500 VDC
	Isolation class	2		Reinforced isolation
	Safety compliance	EN62368-1:2020+A11:2020		
	EMC compliance	EN55032 Class B; EN61000-4-2 (8/6 kV), -4-4 & -4-5 (1 kV)		
	Marking	CE, UKCA, RoHS		

Mechanical and features	Enclosure	Black ABS plastic with LED		
	Dimensions	112 × 48 × 31 mm		
	Weight	220 g	210 g	
	Output connector	DC Jack 2.1 × 5.5 × 10 mm		Plus in the middle
	Input connector	2-pin IEC C8 socket		
	Output cable	1.2 m 18 AWG, 0.823 mm <sup>2</sup>	1.2 m 20 AWG, 0.518 mm <sup>2</sup>	
	Single package size	145 × 63 × 51 mm		
	Packing	472 × 310 × 290 mm		72 items
	Manufacturing	China		
	Warranty	5 years		
	MTBF	100 000 h		

**Notes:**  
 Unless otherwise stated, all parameters are specified at 230 VAC input voltage, 50 Hz, ambient temperature 25°C 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

MECHANICAL SPECIFICATION

PRODUCT LABEL

ESPE

SWITCHING POWER SUPPLY

MODEL:E60T-6012

INPUT:100-240V~47/63Hz 1.5A

OUTPUT:12V = 5A 60W

VI

UK

CA

CE

2321

MADE IN CHINA

Amicus Sp z o.o.

19 kwietnia 31

05-090 Raszyn-Rybie

ESPE

SWITCHING POWER SUPPLY

MODEL:E60T-6024

INPUT:100-240V~47/63Hz 1.5A

OUTPUT:24V = 2.5A 60W

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MADE IN CHINA

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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

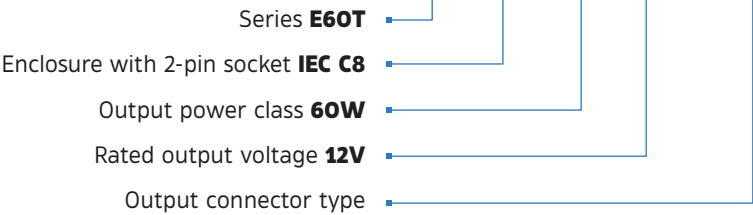
- high efficiency supply with small power consumption at no load, meeting requirements of 6th level rating Energy Star Compliance and European ErP regulations

- polarization: plus in the middle, minus outside

- the product must not be disposed of in normal waste containers

MARKING SYSTEM

E 6 0 T - 6 0 1 2 - 2 1 1



Standard output connector DC Jack 2.1 × 5.5 × 10 mm (plus in the middle)

21 – Plug type DC – DC Jack 2.1 × 5.5 × 10 mm

1 – Plug shape DC and polarization – Straight plug, plus in the middle



STANDARD OUTPUT DC 211 CONNECTOR

Index	Type	Size inside [mm]	Size outside [mm]	Clamp type	Technical drawing	Explanatory picture
211	Straight	2.10	5.50	F 		

VARIANTS OF OUTPUT DC CONNECTORS

E 2 4 - 2 4 0 9 -

Type and plug size

00	None	40	1.7 / 4.0 mm
07	0.7 / 2.35 mm	48	1.7 / 4.8 mm
08	0.8 / 3.0 mm	17	1.7 / 5.5 mm
10	1.1 / 3.0 mm	21	2.1 / 5.5 mm
11	1.1 / 3.5 mm	25	2.5 / 5.5 mm
13	1.3 / 3.45 mm	30	3.0 / 5.5 mm
15	1.5 / 5.5 mm		

Plug shape and polarization

0	None
1	Straight
2	Angled
3	Straight (CN – reversed polarization)
4	Angled (CN – reversed polarization)
6	Socket
7	Socket (CN – reversed polarization)