

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
- low no-load power consumption

APPLICATIONS:

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



E65P is a series of small and efficient 65 W desktop type 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.

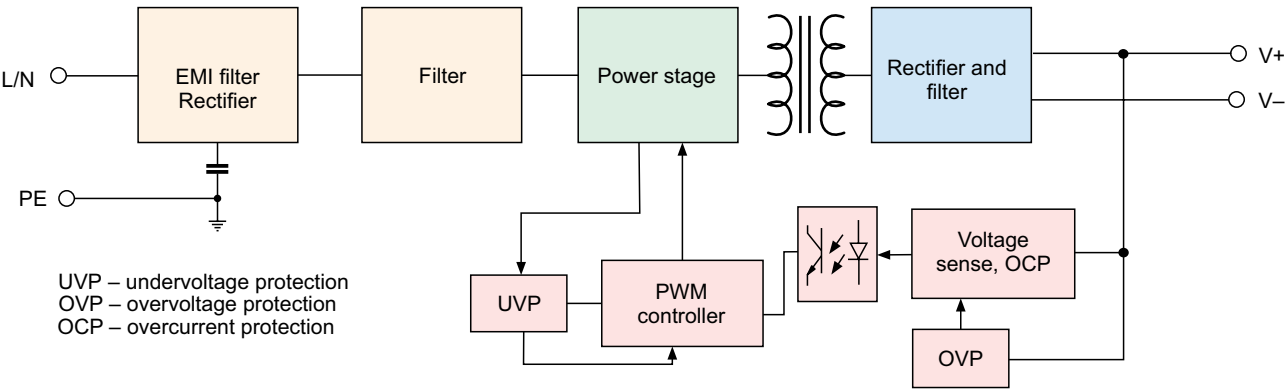
TECHNICAL SPECIFICATION

Group	Parameter	E65P-6512	E65P-6524	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		At 264 VAC
	No load power consumption	0.2 W		
	Input leakage current (max.)	0.25 mA		At 264 VAC
	Power factor correction	No		
	Power factor	0,5		
Output	Rated output voltage	12 V	24 V	
	Rated output power	65 W		
	Rated output current	5.4 A	2.7 A	
	Energy efficiency	91%		
	Energy conversion efficiency at 10% load	86%		
	Energy efficiency class	DoE Level VI, ErP		
	Line regulation	±3%		
	Load regulation	±5%		
	Ripples and noise	200 mVp-p		At 100 VAC
	Minimal output current required	No		
	Hold up time (max.)	3 ms		At 100 VAC
	DC voltage rise time (max.)	40 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	19 V	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		
	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		

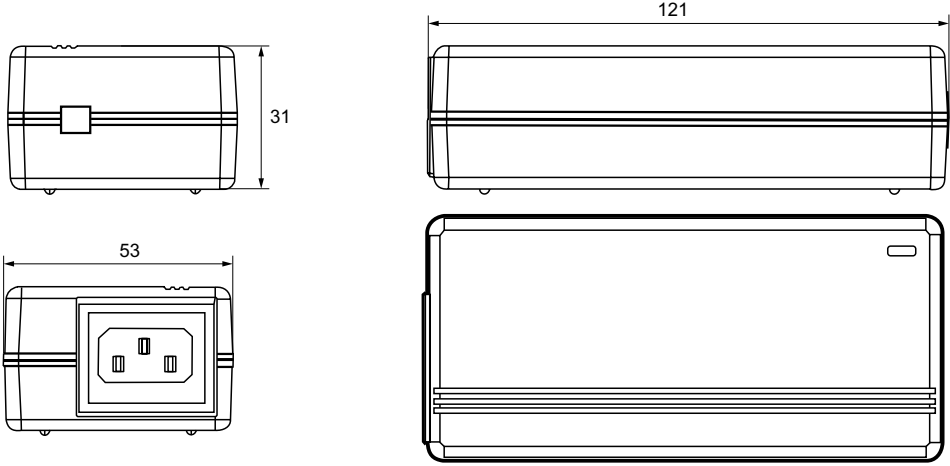
Mechanical and features	Enclosure	Black ABS plastic with LED		
	Dimensions	121 × 53 × 31 mm		
	Weight	215 g		
	Output connector	DC Jack 2.1 × 5.5 × 10 mm		Plus in the center
	Input connector	3-pin IEC C14 socket		
	Output cable	1.2 m AWG18, 0.823 mm ²	1.2 m AWG20, 0.518 mm ²	Flat type
	Single package size	145 × 63 × 51 mm		
	Packing	472 × 310 × 290 mm		42 items
	Manufacturing	China		
	Warranty	5 years		
	MTBF	100 000 h		25°C

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



SWITCHING POWER SUPPLY

MODEL: E65P-6524

INPUT: 100-240 V~ 50/60 Hz 1.5 A

OUTPUT: 24.0V \Rightarrow 2.7A 64.8W

VI

MADE IN CHINA Batch number: 2511C

AMICUS Sp. z o.o.

19 Kwietnia 31 05-090 Rybie

SWITCHING POWER SUPPLY

MODEL: E65P-6512

INPUT: 100-240 V~ 50/60 Hz 1.5 A

OUTPUT: 12.0V \Rightarrow 5.4A 64.8W

VI

MADE IN CHINA Batch number: 2511C

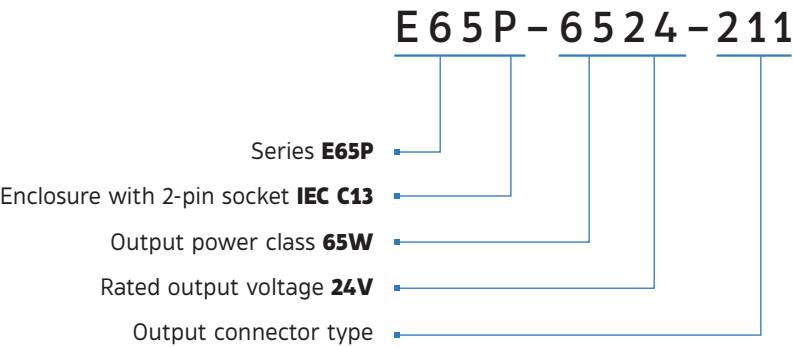
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PRODUCT LABEL

- 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



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

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

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



STANDARD OUTPUT DC 211 CONNECTOR

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

VARIANTS OF OUTPUT DC CONNECTORS

E 65 P – 6 5 2 4 –

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)