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High quality plug-in 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



E18 is a series of small and efficient 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

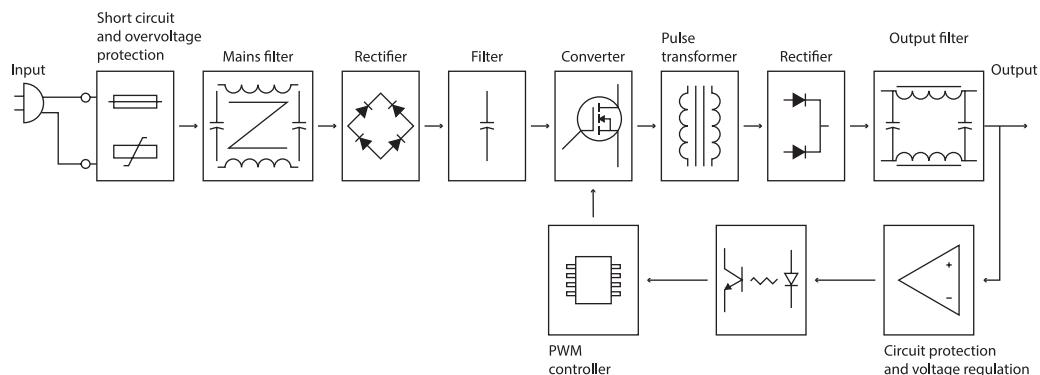
Group	Parameter	E18-1505	E18-1812	E18-1824	Conditions
Input	Rated input voltage		100-240 VAC		
	Input voltage range		90-264 VAC		
	Mains frequency range		47-63 Hz		
	AC current (max.)		0.6 A		At 100 VAC
	Inrush current (max.)		80 A		At 240 VAC
	No load power consumption		0.1 W		
	Input leakage current (max.)	0.15 mA	0.1 mA	0.1 mA	At 240 VAC
	Power factor correction		No		
	Typical power factor		0.5		
Output	Rated output voltage	5 V	12 V	24 V	
	Rated output power	15 W	18 W	18 W	
	Rated output current	3 A	1.5 A	0.75 A	
	Energy efficiency	81,5%	85%	85%	At 230 VAC
	Energy conversion efficiency at 10% load	78%	78%	76%	
	Energy efficiency class	DoE Level VI, ErP			
	Line regulation	±2%			
	Load regulation	±5%	±3%	±3%	
	Ripples and noise	150 mVp-p	120 mVp-p	120 mVp-p	At 230 VAC
	Minimal output current required	No			
Environmental	Hold up time (max.)	Over 3 ms			At 100 VAC
	DC voltage rise time (max.)	Up to 30 ms			At 100 VAC
	Turn on delay time (max.)	1 s			At 100 VAC
	Working temperature range	-5 to +40°C			
	Working humidity range	5% to 95% RH			40°C
Protection	Storage temperature range	-40°C to +85°C			
	Cooling method	Free air circulation			Convection cooling
	Input: overvoltage (OVP), undervoltage (UVP)	OVP, UVP			
	Output: overcurrent (OCP), short circuit (SCP), overvoltage (OVP)	OCP (110-140%), SCP, OVP			
Safety and EMC	Output overvoltage protection	Yes, 10 V	Yes, 19 V	Yes, 36 V	
	Transient voltage protection	Yes			MOV protection
	Thermal switch	Yes			
	Automatic recovery on fault remove	Yes			
	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 type	Black ABS plastic		
	Dimension	56 × 28 × 42 mm		
	Weight	95 g	75 g	75 g
	Output connector	DC Jack 2.1 × 5.5 × 10 mm		Plus in the middle
	Input connector	EU plug		
	Output cable	1.5 m, AWG18	1.5 m, AWG24	1.5 m, AWG24
	Single package size	100 × 90 × 35 mm		
	Packing	472 × 290 × 310 mm		105 items
	Manufacturing	China		
	Warranty	5 years		
	MTBF	100 000 h		At 25°C

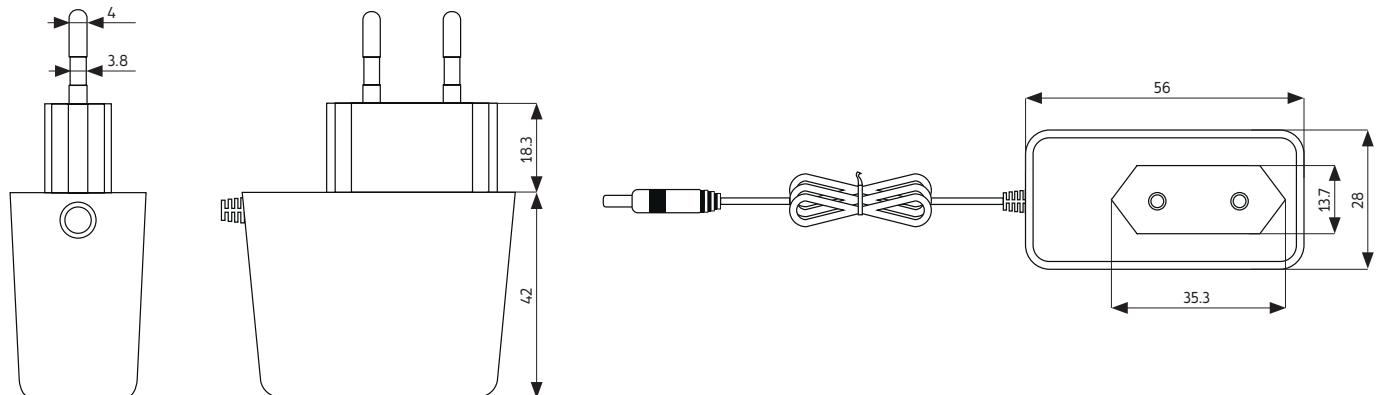
Notes:

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



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

E18-1505-211

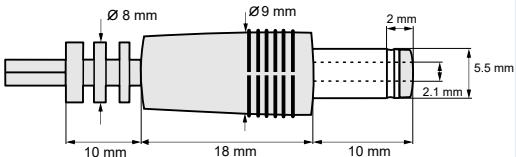
Series **E18**
 Output power class **15 W**
 Rated output voltage **5 V**
 Output connector type **211**

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

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

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

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

E18-1505-

Type and plug size

00	None
07	0.7 / 2.35 mm
08	0.8 / 3.0 mm
10	1.1 / 3.0 mm
11	1.1 / 3.5 mm
13	1.3 / 3.45 mm
15	1.5 / 5.5 mm
40	1.7 / 4.0 mm
48	1.7 / 4.8 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)