



SMPS-T-01-1-240-DC24V-10A

The primary pulsed SMPS switch mode power supply is suitable for a wide range of automation applications in the machine building industry. As central unit of the DC 24 V level they can be used in combination with the 4230-T MCB for AC primary circuit protection. Thanks to the compact design it helps save space in the control cabinet. The 150 % power boost of the power supplies ensures increased machine uptime. Thanks to their mode options (continuous current/hiccup) and their wide output voltage range, they are suitable for a wide range of applications. Thanks to their flexible expandability, you can easily connect several power supplies in series, making future expansions possible without any problems.



TYPICAL FEATURES

- Efficiency factor of more than 93 %
- 40 mm slim aluminium enclosure
- 150 % overload
- · Constant current or hiccup mode limitation, adjustable by the user
- Wide range of output voltage

TYPICAL APPLICATIONS

Process engineering, e.g. industrial switch and control systems, machine building industry, telecommunication systems

WEB LINKS

Further information, International approvals, Technical basics, REACH, RoHS, Contact

YOUR BENEFITS

- High efficiency and space-savings through compact design
- \bullet Increased machine uptime through 150 % power boost
- Flexible application area through mode selection (constant current/hiccup) and wide range of output voltage
- Flexibly expandable through facilitated connection of the power supplies in series

APPROVALS / CERTIFICATIONS





COMPLIANCE







GENERAL INFORMATION

SAFETY AND INSTALLATION INSTRUCTIONS



Installation must be done by a qualified electrician.

- The device must only be supplied with power after proper installation.
- The user must ensure that the cable cross section complies with the applicable current rating. The national standards (e.g. for Germany DIN VDE 0100) must be observed for installation and selection of feed and return cables.
- Recommended circuit breaker for the primary input cable protection: E-T-A's 4230 IN C10A
- In addition, special precautions must be taken in the system or machine (e.g. use of a safety PLC), which reliably prevent an automatic restart of parts of the system (cf. Machinery Directive 2006/42/EU and EN 60204-1, Safety of Machinery). In the event of a failure (short circuit/overload) the load circuit is disconnected by the circuit breaker or the switch mode power supply.

TECHNICAL DATA	(TU = +25 °C, UB = <i>F</i>	AC 230 V, IO = 10 A)
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INPUT CIRCUIT	
Rated input voltage range U _e	AC 90264 V
	DC 110345 V
Rated input voltage Un	AC 230 V
Input current	1.2 A typ. at U _b = AC 240 V
	2.4 A typ. at $U_b = AC 120 V$
Mains frequency	4763 Hz
Inrush current	at AC 230 V: max. 34 A
Power loss	at U _b 230 V, I _o 10 A: < 19 W
Power factor correction (passive)	> 0.9
Input protection	Internal blade fuse T6,3 A / AC 250 V
Recommended back-up fuse	1 pole MCB e.g. E-T-A's 4230; C10 protector

Rated output voltage U _o DC 24 V SELV Rated output current I _o 10 A Overload limit in constant current mode 11 A Output voltage accuracy ±1 % Minimum load 0 % Load regulation Single mode ±1 % Parallel mode ±3 % Voltage setting range DC 2229 V Continuous rated load 10 A at U _o = DC 24 V Power boost factor typ. 150 % Holding time / Exposure time 20 / 30 ms Residual ripple ≤ 60 mV, range = 20 MHz Reverse voltage resistance min. DC 33 V Capacitive load max. 2400 µF Operating conditions signalling DC OK - green LED OVERLOAD - red LED DC OK - 90 % of U _o when switched ON (21.6 V) OVERLOAD - 110 % of I _n when switched on (11 A) OVERLOAD - Hiccup mode at 15 A (max. 5 s) OVERLOAD - C.C. (Constant Current) at 15 A	OUTPUT CIRCUIT	
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Overload limit in constant current mode 11 A Output voltage accuracy ±1 % Minimum load 0 % Load regulation Single mode ±1 % Parallel mode ±3 % Voltage setting range DC 2229 V Continuous rated load 10 A at U₀ = DC 24 V Power boost factor typ. 150 % Holding time / Exposure time 20 / 30 ms Residual ripple ≤ 60 mV, range = 20 MHz Reverse voltage resistance min. DC 33 V Capacitive load max. 2400 μF Operating conditions signalling DC OK - green LED OVERLOAD - red LED DC OK - potential-free contact Limit value display DC OK - 90 % of U₀ when switched ON (21.6 V) OVERLOAD - 110 % of I₀ when switched on (11 A) OVERLOAD - Hiccup mode at 15 A (max. 5 s) OVERLOAD - C.C. (Constant Current) at 15 A	Rated output voltage U _o	DC 24 V SELV
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Minimum load 0% Load regulation $Single \mod \pm 1\%$ Parallel mode $\pm 3\%$ Voltage setting range $DC 2229 V$ Continuous rated load $10 A$ at $U_0 = DC 24 V$ Power boost factor $typ. 150 \%$ Holding time / Exposure time $20 / 30 ms$ Residual ripple $\le 60 mV$, range = $20 MHz$ Reverse voltage resistance $min. DC 33 V$ Capacitive load $max. 2400 \mu F$ Operating conditions signalling $DC OK - green LED$ $OVERLOAD - red LED$ $DC OK - gotential-free contact$ Limit value display $DC OK - 90 \% $ of $U_0 $ when switched ON (21.6 V) $OVERLOAD - 110 \% $ of $I_n $ when switched on (11 A) $OVERLOAD - Hiccup mode at 15 A (max. 5 s)$ $OVERLOAD - C.C. (Constant Current) $ at 15 A	Overload limit in constant current mode	11 A
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OVERLOAD - 110 % of I _n when switched on (11 A) OVERLOAD - Hiccup mode at 15 A (max. 5 s) OVERLOAD - C.C. (Constant Current) at 15 A	Operating conditions signalling	OVERLOAD - red LED
Parallel mode 4 power supplies max. at 0.10.8 l ₀	Limit value display	OVERLOAD - 110 % of I _n when switched on (11 A) OVERLOAD - Hiccup mode at 15 A (max. 5 s)
reconstruction and the second of the second	Parallel mode	4 power supplies max. at 0.10.8 I _o



ELECTRICAL DATA	
Rated insulation voltage	Input to output: AC 3 kV / DC 4.2 kV Protective ground input: AC 1.56 kV / DC 2.2 kV
	Protective ground output: AC 0.53 kV / DC 0.75 kV
Efficiency	typ. > 93 %
Insulation co-ordination (EN IEC 60664)	Pollution degree: 2

Mounting dimensions (WxHxD) 40 x 115 x 140.6 mm (version with terminals) Mounting position Wall mounting with input terminals pointing downwards (see dimensions) Mass approx. 600 g Material Aluminium Mounting data Fixation on DIN rail (TS35/7.5 or TS35/15) Convection cooling normal air convection, distances: see drawing MOUNTING VALUES Input terminal connection capacity rigid 0.22.5 2612 1112 flexible flexible with wire end ferrule with plastic sleeve Output terminal connection capacity Cable cross section [mm²] Cable cross section [AWG] Stripping length [mm] rigid 0.22.5 2612 1112 Cable cross section [AWG] Stripping length [mm] rigid Cable cross section [mm²] Cable cross section [AWG] Stripping length [mm] rigid 0.22.5 2612 1112 Cable cross section [AWG] Stripping length [mm] rigid 0.22.5 2612 10 flexible with wire end ferrule with plastic sleeve 0.22.5 2612 10 flexible with wire end ferrule with plastic sleeve 0.22.5 2612 10 flexible with wire end ferrule with plastic sleeve flexible with wire end ferrule with plastic sleeve 0.22.5 2612 10 Stripping length [mm]				
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Mass approx. 600 g Material Aluminium Mounting data Fixation on DIN rail (TS35/7.5 or TS35/15) Convection cooling normal air convection, distances: see drawing MOUNTING VALUES Input terminal connection capacity Cable cross section [mm²] Cable cross section [AWG] Stripping length [mm] rigid 0.22.5 2612 1112 flexible with wire end ferrule with plastic sleeve 0.252.5 2612 1112 flexible with wire end ferrule without plastic sleeve 0.252.5 2612 1112 Output terminal connection capacity Cable cross section [mm²] Cable cross section [AWG] Stripping length [mm] rigid 0.22.5 2612 10 flexible 0.22.5 2612 10 flexible with wire end ferrule with plastic sleeve 0.22.5 2612 10	Mounting dimensions (WxHxD)	40 x 115 x 140.6 mm (version wi	ith terminals)	
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Input terminal connection capacity rigid 0.22.5 2612 1112 flexible flexible with wire end ferrule with plastic sleeve 0.252.5 2612 1112	Convection cooling	normal air convection, distances: see drawing		
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flexible flexible with wire end ferrule with plastic sleeve 0.22.5 flexible with wire end ferrule without plastic sleeve 0.252.5 2612 1112	Input terminal connection capacity	Cable cross section [mm²]	Cable cross section [AWG]	Stripping length [mm]
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sleeve flexible with wire end ferrule without plastic sleeve Output terminal connection capacity Cable cross section [mm²] Cable cross section [AWG] Stripping length [mm] 10 10 10 10 10 10 10 10 10 1	flexible	0.22.5	2612	1112
Counter tic sleeve Cable cross section [mm²] Cable cross section [AWG] Stripping length [mm] rigid 0.22.5 2612 10 flexible 0.22.5 2612 10 flexible with wire end ferrule with plastic sleeve 0.22.5 2612 10	·	0.252.5	2612	1112
rigid 0.22.5 2612 10 flexible 0.22.5 2612 10 flexible with wire end ferrule with plastic sleeve 0.22.5 2612 10 10	•	0.252.5	2612	1112
flexible 0.22.5 2612 10 flexible with wire end ferrule with plastic sleeve 0.22.5 2612 10	Output terminal connection capacity	Cable cross section [mm²]	Cable cross section [AWG]	Stripping length [mm]
flexible with wire end ferrule with plastic 0.22.5 2612 10 sleeve	rigid	0.22.5	2612	10
sleeve	flexible	0.22.5	2612	10
flexible with wire and famula without place. 0.2.2.5	•	0.22.5	2612	10
tic sleeve	flexible with wire end ferrule without plastic sleeve	0.22.5	2612	10

Ambient temperature	-40+70 °C
•	151111111111111111111111111111111111111
Storage temperature	-40+80 °C
Damp heat	595 % relat. humidity according to UL 61010
Vibration	Test according to IEC 60068-2-6
	Mounted on DIN rail, 2 g (17.8500 Hz), on X, Y & Z axis, 120 minutes per axis
Shock Test according to IEC 60068-2-27, test Ea	
	20 g (11 ms), 3 axes, 6 sides, 3 times per side
IP code (standard)	IP20
EMC requirements (EMC directive, CE	• EN55011 (CISPR11) - Class B
logo) emitted interference	• EN61000-3-2 - Class A
	• EN61000-3-3
EMC requirements (EMC directive, CE	• EN61000-4-2 - Level 3 (Air), Level 2 (Contact)
logo) resistance to disturbances	• EN61000-4-3 - Level 3 (80-1000MHz), Level 2 (1.4-6GHz)
	• EN61000-4-4 - Level 3
	• EN61000-4-5 - Level 3
	• EN61000-4-6 - Level 3
	• EN61000-4-8 - Level 4
	• EN61000-4-11 - Level 2
MTBF	> 600,000 hours at 25 °C
Operating altitude	2,000 m a. sea level (SL)
	3,000 m a. SL
	4,000 m a. SL up to +60 °C
	(from 3,000 m a. SL load reduction 1.4 % and temperature reduction 1 °C per 100 m)



ORDERING NUMBER CODE



1 TYPE NUMBER

SMPS Single phase switch mode power supply for DIN rail mounting

2 PANEL CUT-OUT

T DIN rail mounting

3 TERMINAL

01 Push-in terminals

4 PHASE

1 single phase

5 POWER

120 120 Watt 240 240 Watt 480 480 Watt

6 OUTPUT VOLTAGE

DC24V

7 OUTPUT CURRENT

5A

10A

20A

APPROVALS



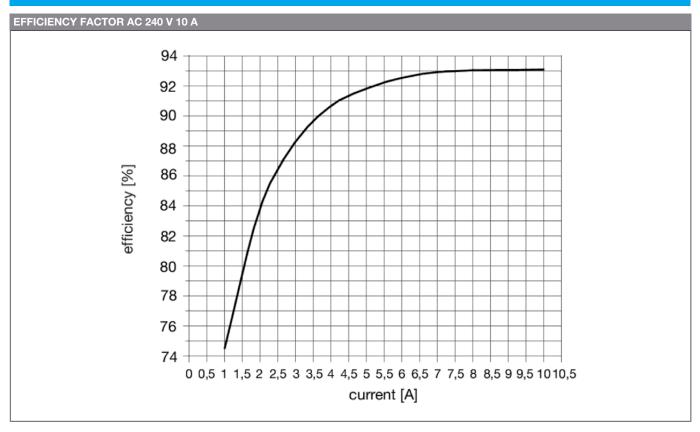
- •UL508
- UL61010-1
- UL61010-2-201



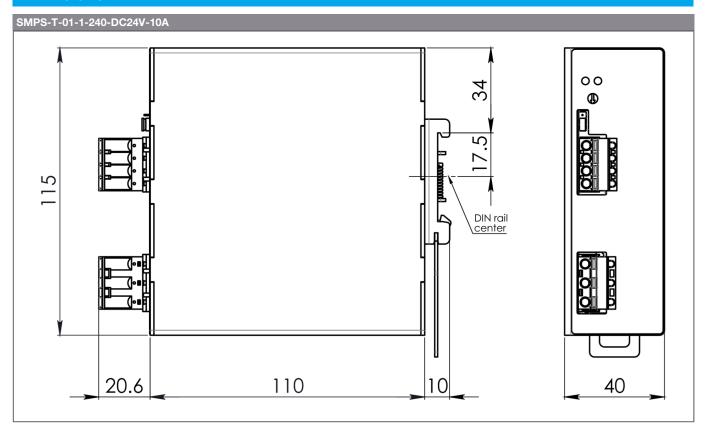
- IEC/EN61010-1
- IEC/EN61010-2-201



EFFICIENCY

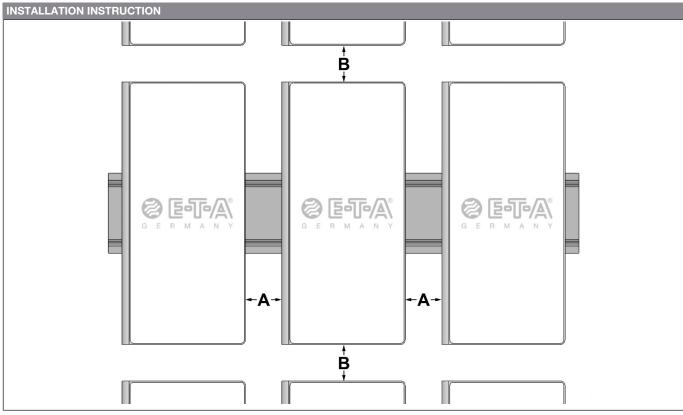


DIMENSIONS





INSTALLATION INSTRUCTIONS



A = 20 mm; B = 50 mm

INSTALLATION INSTRUCTIONS

PIN ASSIGNMENTS		
Pin no.	Name	Description
1.1	Earth Ground	Input Connection
1.2	Neutral	Input Connection
1.3	Line	Input Connection
2.1	DC+	Output Connection
3.1	DC -	Output Connection
13	NO	Signalling / DC OK
14	COM	Signalling / DC OK

FURTHER PRODUCTS

RELATED PRODUCTS

0SMPS1001

SMPS-T-01-1-120-DC24V-5A

The primary pulsed SMPS switch mode power supply is suitable for a wide range of automation applications in the machine building industry. As central unit of the DC 24 V level they can be used in combination with the 4230-T MCB for AC primary circuit protection. Thanks to the compact design it helps save space in the control cabinet. The 150 % power boost of the power supplies ensures increased machine uptime. Thanks to their mode options (continuous current/hiccup) and their wide output voltage range, they are suitable for a wide range of applications. Thanks to their flexible expandability, you can easily connect several power supplies in series, making future expansions possible without any problems.







0SMPS1003

SMPS-T-01-1-480-DC24V-20A

The primary pulsed SMPS switch mode power supply is suitable for a wide range of automation applications in the machine building industry. As central unit of the DC 24 V level they can be used in combination with the 4230-T MCB for AC primary circuit protection. Thanks to the compact design it helps save space in the control cabinet. The 150 % power boost of the power supplies ensures increased machine uptime. Thanks to their mode options (continuous current/hiccup) and their wide output voltage range, they are suitable for a wide range of applications. Thanks to their flexible expandability, you can easily connect several power supplies in series, making future expansions possible without any problems.



All information and data given on our products are accurate and reliable to the best of our knowledge, but E-T-A does not accept any responsibility for the use in applications which are not in accordance with the present specification. E-T-A reserves the right to change specifications at any time in the interest of technical improvement. Dimensions are subject to change without notice. Please enquire for the latest dimensional drawing with tolerances if required. All dimensions, data, pictures and descriptions are for information only and are not binding. Amendments, errors and omissions excepted. Ordering part numbers may differ from the device marking.

