

# Power supply unit - TRIO-PS/1AC/12DC/10 - 2866488

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Primary-switched TRIO POWER power supply for DIN rail mounting, input: 1-phase, output: 12 V DC/10 A

## Product Description

TRIO POWER power supplies with standard functionality  
 TRIO POWER is particularly suited to standard machine production, thanks to 1- and 3-phase versions up to 960 W. The wide-range input and the international approval package enable worldwide use.  
 The robust metal housing, the high electric strength, and the wide temperature range ensure a high level of power supply reliability.

## Why buy this product

- Use the third negative terminal block as a grounding terminal block and minimize installation costs
- Rugged design with metal housing and wide temperature range from -25 to +70°C
- Maximum operational reliability thanks to high MTBF (mean time between failures) of more than 500,000 hours and high dielectric strength of up to 300 V AC
- Compensation of voltage drops by means of output voltage that can be adjusted on the front



## Key Commercial Data

Packing unit	1 STK
GTIN	
GTIN	4046356287807
Weight per Piece (excluding packing)	600.000 g
Custom tariff number	85044030
Country of origin	China

## Technical data

### Dimensions

Width	40 mm
Height	130 mm
Depth	115 mm

### Ambient conditions

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### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 55° C derating : 2.5%/K)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)
Noise immunity	EN 61000-6-2:2005

### Input data

Nominal input voltage range	100 V AC ... 240 V AC
Input voltage range	85 V AC ... 264 V AC (derating < 90 V AC: 2.5 % per Kelvin)
Dielectric strength maximum	300 V AC
AC frequency range	45 Hz ... 65 Hz
Discharge current to PE	< 3.5 mA
Current consumption	1.7 A (120 V AC)
	0.9 A (230 V AC)
Nominal power consumption	> 12 V DC, constant capacity restricted
Inrush surge current	< 15 A
Power failure bypass	> 20 ms (120 V AC)
	> 86 ms (230 V AC)
Choice of suitable circuit breakers	6 A ... 16 A (Characteristics B, C, D, K)
Type of protection	Transient surge protection
Protective circuit/component	Varistor

### Output data

Nominal output voltage	12 V DC ±1 %
Setting range of the output voltage ( $U_{Set}$ )	10 V DC ... 18 V DC (> 12 V DC, constant capacity restricted)
Nominal output current ( $I_N$ )	10 A (-25°C ... 55°C)
Derating	55 °C ... 70 °C (2.5%/K)
Connection in parallel	Yes, for redundancy and increased capacity
Connection in series	yes
Max. capacitive load	Unlimited
Active current limitation	Approx. 12 A (in the event of a short-circuit)
Control deviation	< 1 % (change in load, static 10 % ... 90 %)
	< 2 % (change in load, dynamic 10 % ... 90 %)
	< 0.1 % (change in input voltage ±10 %)
Residual ripple	< 20 mV <sub>PP</sub>
Output power	120 W
Typical response time	< 1 s
Peak switching voltages nominal load	< 70 mV <sub>PP</sub>
Maximum power dissipation in no-load condition	1.1 W
Power loss nominal load max.	18 W

### General