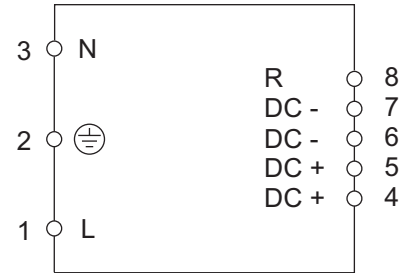


Power Supply Unit

1/2

Primary switched-mode, 2 A, stabilized output voltage, wide input voltage range AC 85-264 V

Data sheet



Description	Item-No.	Pack.-unit pcs
Front-entry, short-circuit and overload proof overload proof up to 50% for 1s	787-912	1
Industrial 48 W power supply unit	Technical data	
<ul style="list-style-type: none"> • Universal input voltage range AC 85-264 V. • 86 % efficiency. • SELV-output. • Output voltage adjustment range of approx. 90...110 %. • Isolation voltage AC 3 kV. • Very compact construction. • Mountable on DIN 35 rail. 	Input: Input voltage AC 85–264 V, 47-63 Hz, DC 88-372 V Input current 0.8 A (125 V); AC 0.4 A (230 V) Peak inrush current 19 A Input fuse 1.6 A slow (internal) Function indication LED, green Max. power consumption 106 W Input protective circuit voltage-dependent resistance (VDR) Output: Output voltage DC 24 V, accuracy ±1.5 % Output power 48 W Output nominal current 2 A Efficiency (AC 230 V) 86 % Peak-to-average Ripple factor <1 % Ripple voltage 100 mV _{typ} / 150 mV _{max} Switching peak 20 MHz ca. 100 mV Output current limit Short term overload proof, with overheat protection Output hold-up time 14 ms / 115 V 90 ms / 230 V Output protection measures open circuit, overload and short-circuit protection Dielectric strength input / output AC 3 kV / DC 4.2 kV (acc.to IEC 60950) Nominal operating mode 100 % continuous duty Emission of interference 10 kHz ... 30 MHz Level B (acc. to EN 50011/50022) Degree of protection IP 20	

Power Supply Unit

2/2

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Application note:

As a standard feature, the power supply units offer adjustable output voltage by using the control input R. If the R pin is left open-circuit, the output voltage is set to $U_{O\ nom}$. (see: Output data). The R input is referenced to the secondary side of the converter. Adjustment of the output voltage is possible by means of either an external resistor connected to V_{O+} and V_{O-} or by an external voltage source (remote operations).

1) Adjustment by means of an external resistor (R_{ext1}):
Depending upon the value of the required output voltage, the resistor shall be connected

- **either:** Between the R terminal and V_{O-} to achieve an output voltage adjustment range of approximately $U_o = 90 \dots 100 \% U_{O\ nom}$.

$$R_{ext1} \approx 4k\Omega \cdot \frac{U_o}{24V - U_o}$$

- **or:** Between the R terminal and V_{O+} to achieve an output voltage range of approximately $U_o = 100 \dots 110 \% U_{O\ nom}$

$$R_{ext2} \approx 4k\Omega \cdot \frac{(U_o - 2.5V)}{2.5V \cdot (U_o / 24V - 1)}$$

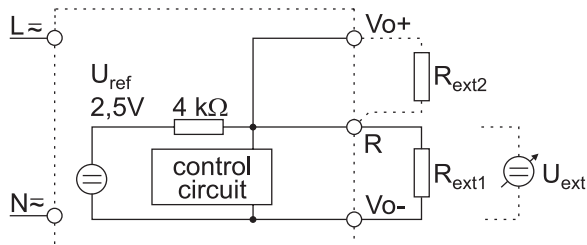
2) Adjustment by means of an external voltage U_{ext} between V_{O-} and R terminal to achieve an output voltage adjustment range of approx. 90...110 % $U_{O\ nom}$

$$U_{ext} \approx \frac{U_o \cdot 2.5V}{24V}$$

Attempting to adjust the output below this range will cause the converter to shutdown (hiccup mode).

Note:

Applying an external control voltage >3 V may damage the converter.



General data:

Vibration resistance	2 g at 10-2000 Hz
Shock resistance	15 g
Bump resistance	10 g
Ambient operating temperature	-10 °C...+50 °C *
	* +70 °C at I = 0.9 A
Relative air humidity	93 %, no condensation
Storage temperature	-40 °C...+85 °C
Mounting system	To be snapped onto DIN rail in accordance with EN 50022, for vertical mounting, modular
Wire connection	Terminal blocks with CAGE CLAMP®, (WAGO series 236) 0,08-2,5 mm ² / AWG 28-14
Stripped length	5-6 mm / 0.22 in
Weight	600 g / 1.32 lbs
Dimensions (LxWxH)	(38x108**x90) mm / (1.52x4.2**x3.54) in ** from upper edge of DIN 35 rail
Standards / prescriptions	EN 60950, VDE 0805, EN 50022, EN 60068, EN 61000-4-2,-3,-4,-5,-6,-11 UL 1950, UL 508 Listed CSA 22.2. No. 950