## POWER SUPPLY UNIT

Short guide

## 

Installation at the attachment site should be done only when the power supply to the device and all devices connected to it is turned off.

### CAUTION

When connecting the load to the output of the device, **observe the polarity**! Incorrect connection may result in equipment failure.

# NOTICE

For installation, you must use only a special tool for electrical

Work.

- Protection against output overvoltage and overcurrent.
- Input protection against overvoltage and impulse noise.
- · Protection against overload, short circuit and overheating.
- Adjusting the output voltage with a trimmer.
- Possibility of parallel and serial connection of several power supply units without additional external protection devices and equalization of output currents.

## 

When connecting units in parallel, it is recommended to ensure identical length and cross-section of wires from the power supply terminals to the point of connection of wires.

### Specification

Characteristic	Value			
Output parameters				
Nominal power supply voltage	24 V			
Nominal current	2.5 A			
Nominal power consumption	60 W			
Output voltage adjustment	±8 %			
Voltage deviation, including:	max. ±2 %			
<ul> <li>output voltage deviation caused by input voltage</li> </ul>	max. ±0.5 %			
<ul> <li>output voltage deviation caused by output current</li> </ul>	max. ±0.25 %			
<ul> <li>temperature coefficient</li> </ul>	max. ±0.015 %/°C			
Output ripple voltage	max. 120 mV			



Characteristic	Value					
Input parameters						
AC power supply	85264 V <sub>RMS</sub>					
AC frequency	4565 Hz					
DC power supply	110370 V					
Rated current consumption	max. 1.25 A					
Inrush current	max. 36 A					
Efficiency at rated load	min. 85 %					
Protection						
Output current limit	104 116% of rated current					
Output voltage limit	150% of rated voltage					
Safety and EMC						
Electromagnetic immunity according to EN 61000-4:2010	class A					
Electromagnetic emission level by power port according to EN 61000-4:2010	class B					
IP Code according to EN 60529:2014	IP20					
Appliance class according to EN 61140:2016	II					
Insulation according to EN 61010-1:2010	reinforced					
Overvoltage category according to EN 61010-1:2010	II					
Pollution degree according to IEC 60364-4-443:1995	2					
Insulation strength						
<ul> <li>input-output, input-housing</li> </ul>	3,000 V					
<ul> <li>output-relay</li> </ul>	2,000 V					
Insulation resistance (input- output-housing) at 500 V	1,000 ΜΩ					
Environmental conditions						
Ambient temperature	-40…+70 °C					
Transportation and storage	-40…+50 °C					
Other	features					
Average service lifetime	10 years					
Warranty	2 years					
Average error-free running time	50,000 h					
Weight	max. 0.5 kg					
Serial connectivity	Yes					

Characteristic	Value	
Parallel connectivity*	Yes	
Type of circuit breaker	6 A, type C or 10 A, type B	
Digital output characteristics	2 A at 250 V AC and cos φ > 0.4 2 A at 24 V DC	

\* If two power supply units are connected in parallel to a load of max. 60 W, the "Alarm" LED on one of the units may flash.

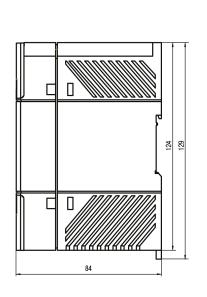
#### Indication and signals

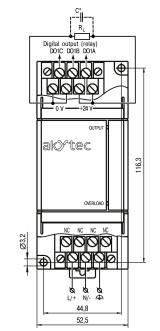
Status	LED		Digital output	
	Output	Overload	DO1A	DO1C
Rated load*	Green	OFF	Open	Closed
Output current limiting mode: U <sub>OUT</sub> = 12 24** V	Orange	OFF	Closed	Open
Output current limiting mode: U <sub>OUT</sub> = 412** V	Orange	Flashing red	Closed	Open
Output current limiting mode: U <sub>OUT</sub> = 04** V	OFF	Flashing red	Closed	Open



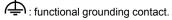
\* If two power supply units are connected in parallel to a load of max. 60 W, the "Alarm" LED on one of the units may flash. \*\* The voltage value is approximate and may vary from device to device.







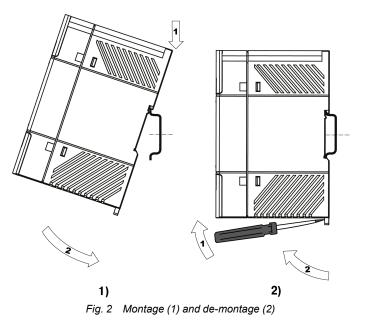
#### Fig. 1 Dimensions and connectors

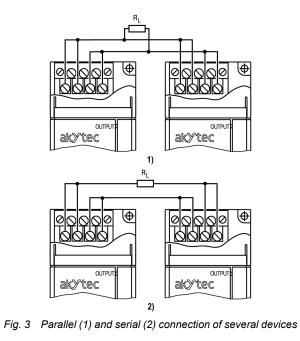


DO1C DO1B DO1A : DO1A – normally closed contact; DO1B – changeover contact; DO1C – normally open contact.

#### NOTICE \*If the ler

\*If the length of the wires between the unit and the load is more than 1 m and there are no input capacitors at the load input, it is recommended to connect a ceramic capacitor with a capacity of at least 0.1  $\mu$ F and 150% of output voltage of the used unit in parallel to the load.







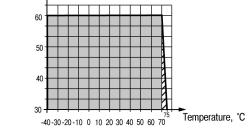


Fig. 4 Output power vs ambient temperature

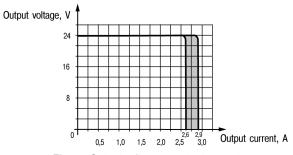


Fig. 5 Output voltage vs output current

Input current, A 1,0 0,8 0,6 0,4 0,5 115 145 175 205 235 265 Power supply, V

Fig. 6 Input current vs supply voltage

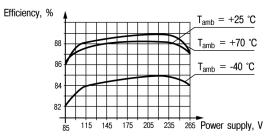


Fig. 7 Efficiency vs supply voltage and ambient temperature