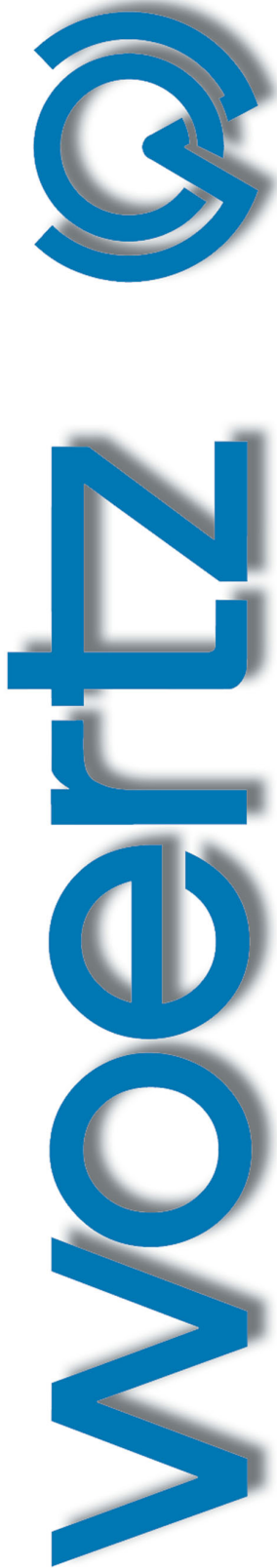


POWER SUPPLIES



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Power supplies

Introduction / About power supplies

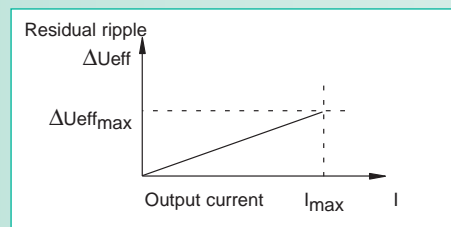
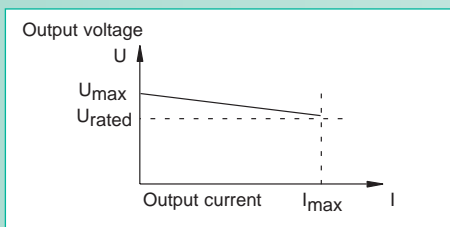
Power supplies have an essential role in control panels. Therefore, it is important that they are extremely reliable in an industrial environment. Our power supplies have a long life expectancy and are well suited for the industrial use. They can operate continuously at full load and even tolerate brief overloads.

The Woertz power supplies are designed so that they can be either screwed or clipped onto mounting rails according to EN 60715 TH 35-7.5 and EN 60715 TH 35-15 or EN 60715 G32 (DIN). The mounting type depends on the output power of the module.

Smoothed power supplies

Smoothed power supplies are simple energy sources. They create DC voltages which usually have good enough tolerance and ripple level, to suit most industrial applications (input tolerance is often $\pm 20\%$).

Smoothed power supplies consist of a transformer, a rectifier and a smoothing capacitor. At open-circuit operation (without load) the output voltage is somewhat higher than the theoretical value and has almost no ripple. At full load, the output voltage decreases to a lower value. The capacitor at the output is only charged during a short time. It must then be able to fill in the "holes" with the stored energy. This cycle of charging and discharging is repeated over and over again. The result is a DC output voltage with a 100 Hz superimposed ripple. The ripple size depends on both the capacitor and the output current. The Woertz range of smoothed power supplies are well dimensioned, so that the ripple $\Delta U_{\text{eff max}}$ can be kept low even at full load.



Regulated power supplies

In the case of regulated power supplies, the output voltage is maintained at a nearly constant value, from no load up to the rated current. Our range of regulated power supplies can be divided into two groups:

- Power supplies with linear regulators
- Switched power supplies

In the case of small power supplies, a linear controller is usually used.

Linear regulated power supplies consist of three parts: transformer, rectifier and regulator. The transformer achieves the galvanic separation between output and mains and adapts the voltage to a suitable level for further steps. The obtained AC voltage is then rectified and smoothed. The linear regulator keeps the output voltage stable, even if the current varies. The greater voltage difference between input and output of the regulator, the more power will be dissipated as heat.

Therefore power supplies with linear regulators usually need heat sinks. The advantage of this type of regulation is: it does not induce high frequency disturbance into sensitive devices, regulates fast and is very accurate. When high power has to be supplied, the linear type of regulator becomes less attractive due to the high power losses. Therefore the switched mode power supplies are introduced.

Switching power supplies "cut" the input voltage and transmit these pulses to the output circuit by means of a HF transformer. The output voltage is usually regulated by adjustment of the duty cycle. Often the switching power supplies operate with fixed frequencies of 100-200 kHz. In the case of an ideal controller, output power is equal to input voltage; this means that the power dissipation in the controller is equal to zero and independent of both voltage and current at the input and at the output. In reality the efficiency of a switching power supply is between 70% and 95%. The losses are comparably lower than those in a power supply with linear regulator. It is thus possible to build the switched power supplies smaller and lighter. However the development is more demanding and less flexible than for the linear technology. Due to the low power dissipation (high efficiency) of the switching power supplies, it is possible to lower the current consumption in the whole system, which decreases the operation costs. Woertz is offering switched power supplies for reasonable prices.



Properties

- Low power shunt regulator in 5.08mm SnapLine housing
- Protected against short-circuits (10s.)
- Up to three terminals can be connected in parallel to increase output current
- Available for the most common industrial voltages



Accessories

30407T	End barrier
30403	Compatible 3-level terminals
30413RO	Cross connection 20-pole red
30413BL	Cross connection 20-pole blue
30790	Cross connection 10-pole grey
81535/x	Insulated cross connections w. screws x = 2, 3, 4, 5, 10 poles
30411, 12	Isolation strip red, blue
80247, 48	Test plug red, black
35455/55xx	Labels for custom use RB / 5 x 5



Technical data ($T_a = 25^\circ\text{C}$)

Regulator part

Max. input voltage

Output voltage tolerance (at U_N)

Maximum output current at rated input voltage U_N

General data

Max. through-going current (0V/0V or U_+/U_+)

Operating temperature range

Nominal cross section of connecting terminals

Max. torque

Size W x H x D (from rail)



Order numbers

U_N : 12 VDC U_O : 5.1 VDC/ 80 mA
($R_z = 82 \Omega$, $R_{Lmin} = 65 \Omega$)

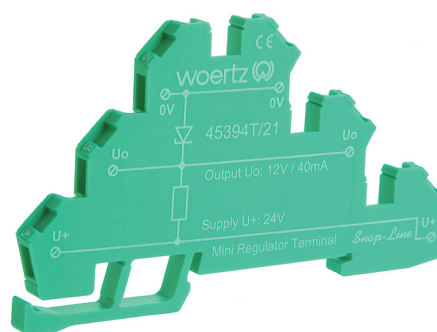
U_N : 24 VDC U_O : 5.1 VDC/ 35 mA
($R_z = 470 \Omega$ $R_{Lmin} = 145 \Omega$)

U_N : 24 VDC U_O : 12.0 VDC/ 40 mA
($R_z = 270 \Omega$, $R_{Lmin} = 300 \Omega$)

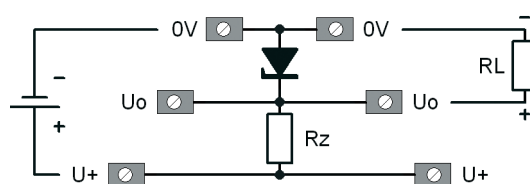
U_N : 48 VDC U_O : 5.1 VDC/ 15 mA
($R_z = 2.2 \text{ k}\Omega$, $R_{Lmin} = 330 \Omega$)

U_N : 48 VDC U_O : 12.0 VDC/ 20 mA
($R_z = 1.5 \text{ k}\Omega$, $R_{Lmin} = 600 \Omega$)

U_N : 48 VDC U_O : 24.0 VDC/ 20 mA
($R_z = 1.0 \text{ k}\Omega$, $R_{Lmin} = 1.2 \text{ k}\Omega$)



45394T/21



$U_N + 10\%$
 $\pm 5\%$
see table below

10 A
-55 °C up to +45 °C
2.5 mm²
0.4 Nm
5.08 x 86.5 x 44 mm

45394T/17

45394T/27

45394T/21

45394T/37

45394T/31

45394T/32

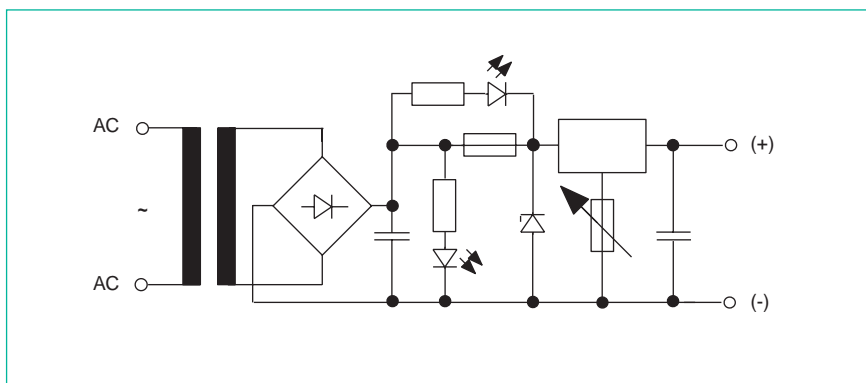
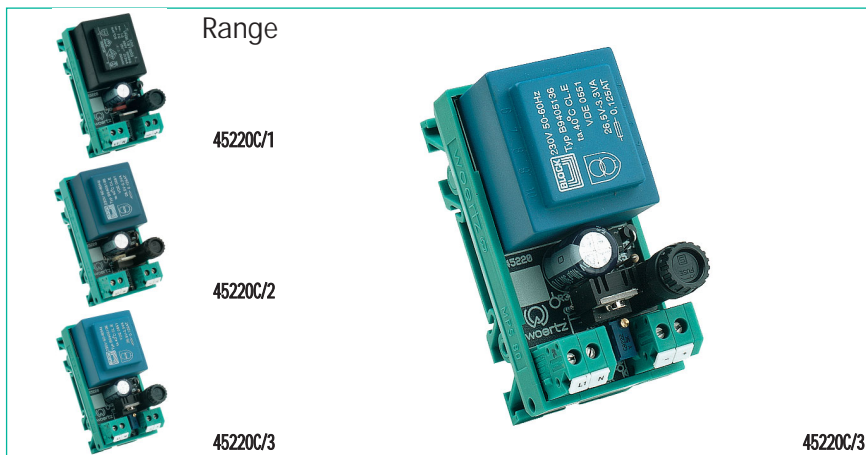
Regulated miniature power supplies

Output current 50 mA resp. 100 mA



Properties

- Regulated power supply
- Primary side, standard voltage 230 or 115 V AC
- With green LED as operating indicator and red LED as fuse failure indicator



Technical data

Output voltage
Output current
Ripple ΔU_{eff} max. at I_{nom}
Operating temperature
Size W x H x D



Order numbers

Supply voltage 115 V AC / 60 Hz
230 V AC / 50 Hz

Adjustable voltage

1.5 - 25 V DC
50 mA
max. 10 mV
-20°C up to +40°C
40 x 83 x 57 mm

45220C/6
45220C/3

Voltage 12 V DC

12 V DC
100 mA
max. 10 mV
-20°C up to +40°C
40 x 83 x 57 mm

45220C/4
45220C/1

Voltage 24 V DC

24 V DC
100 mA
max. 10 mV
-20°C up to +40°C
40 x 83 x 57 mm

45220C/5
45220C/2



Properties

- Operating and fuse indicators
- Low ripple



On request

- Other voltages available

Range



45136C/4



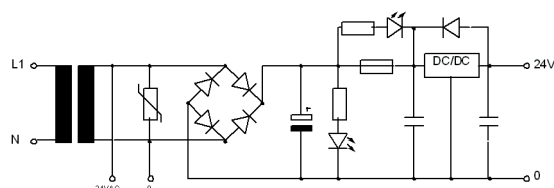
45136C/3



45136C/2



45136C/3



Technical data

Supply voltage
Output voltage
Output power
Output current
Ripple ΔU_{eff} max. at $I_{nom} = 1A$
Operating temperature
Size W x H x D

230 V AC $\pm 10\%$
5 V DC $\pm 5\%$
5 W
1 A
5 mV
-20°C up to +40°C
140 x 83 x 80 mm

230 V AC $\pm 10\%$
12 V DC $\pm 5\%$
12 W
1 A
5 mV
-20°C up to +40°C
140 x 83 x 80 mm

230 V AC $\pm 10\%$
24 V DC $\pm 5\%$
24 W
1 A
5 mV
-20°C up to +40°C
140 x 83 x 80 mm



Order numbers

45136C/4

45136C/3

45136C/2

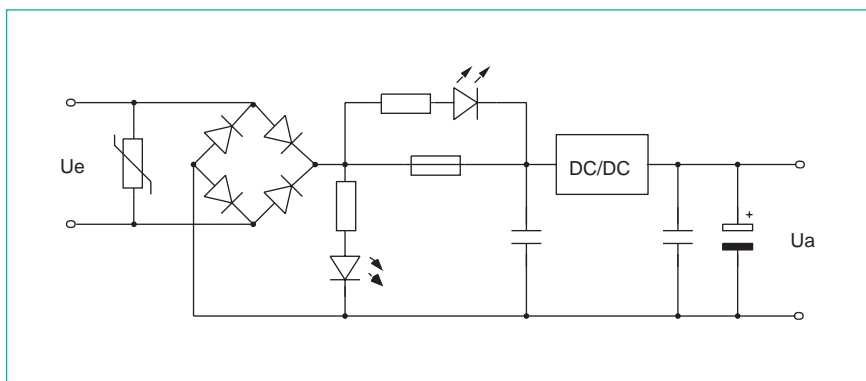
Regulated power supplies

without transformer, Output current 250 mA



Properties

- Power supply module without transformer
- Can be used as AC/DC or DC/DC converter
- Regulator with thermal overload protection
- Tolerates brief overload
- With LEDs indicating operation and fuse failure



Technical data

Output voltage
Input voltage range V AC
Input voltage range V DC
Output current
Ripple ΔU_{eff} max. at $I_{nom} = 250$ mA
Fuse
Operating temperature
Size W x H x D

Output voltage 5 V DC

5 V DC $\pm 5\%$
8 - 18 V AC
11 - 25 V DC
250 mA
5 mV
0.315 A lag
-20°C up to +40°C
30 x 83 x 60 mm

Output voltage 12 V DC

12 V DC $\pm 5\%$
12 - 24 V AC
16 - 35 V DC
250 mA
5 mV
0.315 A lag
-20°C up to +40°C
30 x 83 x 60 mm

Output voltage 24 V DC

24 V DC $\pm 5\%$
20 - 25 V AC
28 - 35 V DC
250 mA
5 mV
0.315 A lag
-20°C up to +60°C
30 x 83 x 60 mm



Order numbers

45163C/6

45163C/1

45163C

Regulated power supplies

without transformer, output current 1 A



Properties

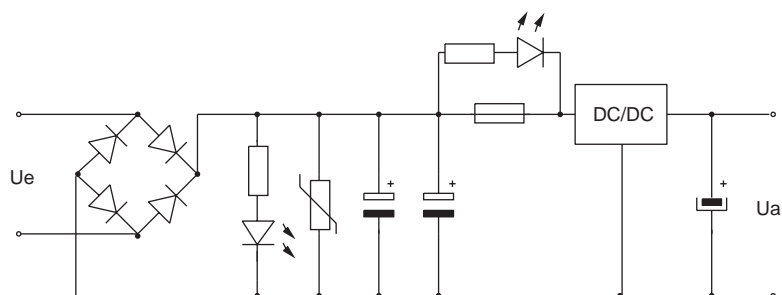
- Power supply module without transformer
- Can be used as AC/DC or as DC/DC converter
- Regulator with thermal overload protection
- With LEDs indicating operation and fuse failure



45200C/1



45200C



Technical data

Output voltage
Input voltage range V AC
Input voltage range V DC
Output current
Ripple ΔU_{eff} max. at $I_{nom} = 250$ mA

Output voltage 12 V DC

12 V DC $\pm 5\%$
12 - 17.5 V AC
14.5 - 21 V DC
1 A
5 mV

Derating at higher input voltage

$$\text{DC: } I_{amax.} = \frac{9 \text{ W}}{U_e - 12 \text{ V}} \quad (\text{at } U_e = 24 \text{ V DC})$$

($I_a = 0.75$ A)
max. 27 V DC

$$\text{AC: } I_{amax.} = \frac{7.5 \text{ W}}{U_e - 10 \text{ V}} \quad (\text{at } U_e = 20 \text{ V AC})$$

($I_a = 0.75$ A)
max. 22.5 V AC

Fuse
Size W x H x D

1 A lag
70 x 83 x 56 mm



Order numbers

45200C/1

Output voltage 24 V DC

24 V DC $\pm 0.5\%$
24 - 27 V AC
20 - 32 V DC
1 A
5 mV

1 A lag
70 x 83 x 56 mm

45200C

DC/DC Converter 6W

5VDC, 1.2A, non isolated



Properties

- High-grade DIN rail DC/DC converter
- Large input voltage range
- Protected against short-circuits (10 s.)
- Regulated output voltage
- Can be mounted on rails to EN 60715 TH 35-7.5 and EN 60715 TH 35-15
- Light shielded housing
- Input fuse (protection function in the case of a failure at the regulator)
- LED indicating output voltage



On request

- Other data (input voltage, output voltage, current, etc)



Technical data

Input

Rated voltage range
Primary fuse protection

Output

Power
Voltage and current

General data

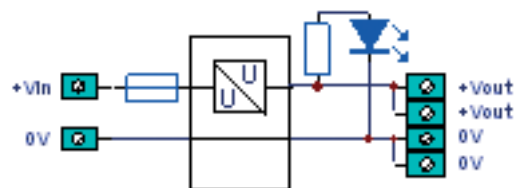
Rated cross section of connecting terminals
Operating temperature range
Cooling
Size W x H x D



Order numbers



45490C/05



10-55 VDC
2 A lag

6 W
5 V DC, 1.2 A

2.5 mm²
-25°C up to +60°C
convection cooling
60 x 83 x 69 mm

45490C/05



Properties

- High grade DIN rail power supply
- Embedded AC/DC converter
- Large input voltage range
- High efficiency up to 76 %
- High reliability (MTBF > 400'000 h)
- Protected against overvoltage
- Protected against overload current
- Protected against short-circuits
- Regulated output voltages
- Single and double outputs
- Regulator: FCC Class B, VCCI Class B
cUL 1950, EN 60950, CE
- Can be mounted on rails to EN 60715 TH 35-7.5 and EN 60715 TH 35-15



On request

10 W output power (70 x 83 x 47 mm)
Pluggable terminals



Technical data

Input

Rated voltage range
Current
Primary fuse protection
Supply frequency

Output

Power
Voltages and currents

Voltage tolerance
Max. supply regulation
Load regulation (no-load operation up to full load)
Max. output ripple
Leakage current

General data

Rated cross section of connecting terminals
MTBF
Weight
Operating temperature range
Cooling
Size W x H x D

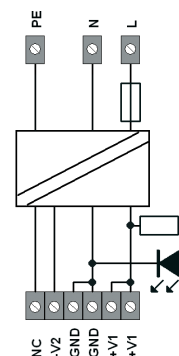
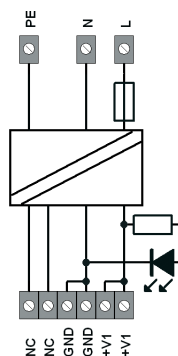


Order numbers

3.3 V DC
5 V DC
12 V DC
15 V DC
24 V DC



45401C/24S



Single

100 ... 240 V AC
max. 0.25 A
0.5 A lag
47 ... 63 Hz

5 W
3.3 V DC, 1.5 A
5 V DC, 1 A
12 V DC, 416 mA
15 V DC, 333 mA
24 V DC, 200 mA

2 %
0.3 %
± 3 %
1 %
< 0.30 mA

2.5 mm²
400'000 h
141 g
-25°C up to +70°C
Convection cooling
60 x 83 x 47 mm

45401C/03S
45401C/05S
45401C/12S
45401C/15S
45401C/24S

Double

100 ... 240 V AC
max. 0.25 A
0.5 A lag
47 ... 63 Hz

5 W
± 5 V DC, ± 500 mA
± 12 V DC, ± 200 mA
± 15 V DC, ± 160 mA

2 %
0.3 %
± 3 %
1 %
< 0.30 mA

2.5 mm²
400'000 h
141 g
-25°C up to +70°C
Convection cooling
60 x 83 x 47 mm

45401C/05D
45401C/12D
45401C/15D

Switching power supplies 15 W

Single, double and triple outputs



Properties

- High grade DIN rail power supply
- Embedded AC/DC converter
- Large input voltage range
- High efficiency up to 80%
- High reliability (MTBF > 400'000 h)
- Protected against overvoltage
- Protected against overload current
- Protected against short-circuits
- Regulated output voltages
- Single, double and triple outputs
- Regulator: FCC Class B, VCCI Class B
cUL 1950, EN 60950, CE
- Can be mounted on rails to EN 60715 TH 35-7.5 and EN 60715 TH 35-15



On request

Single and double versions also with 10 W output power (70 x 83 x 47 mm)
Pluggable terminals



Technical data

Input

Rated voltage range
Current
Primary fuse protection
Supply frequency

Output

Power
Voltages and currents

Voltage tolerance

Max. supply regulation

Load regulation (no-load operation up to full load)

Max. output ripple

Leakage current

General data

Rated cross section of connecting terminals

MTBF

Weight

Operating temperature range

Cooling

Size W x H x D



Order numbers

5 V DC
12 V DC
15 V DC
24 V DC

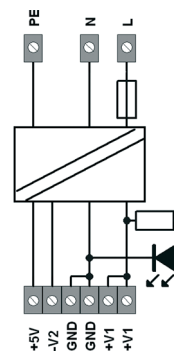
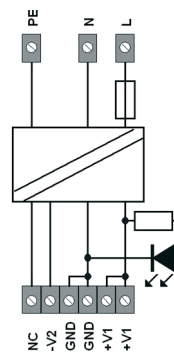
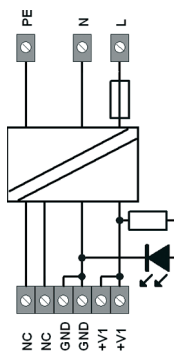
45403C/05S
45403C/12S
45403C/15S
45403C/24S

45403C/05D
45403C/12D
45403C/15D

45403C/12T
45403C/15T



45403C/24S



Single

100 ... 240 V AC
max. 0.25 A
0.5 A lag
47 ... 63 Hz

15 W
5 V DC, 3 A
12 V DC, 1.25 A
15 V DC, 1 A
24 V DC, 625 mA

2 %
0.3 %
± 3 %
1 %
< 0.30 mA

2.5 mm²
400'000 h
206 g
-25°C up to + 70°C
Convection cooling
80 x 83 x 47 mm

Double

100 ... 240 V AC
max. 0.25 A
0.5 A lag
47 ... 63 Hz

15 W
± 5 V DC, ± 1.5 A
± 12 V DC, ± 650 mA
± 15 V DC, ± 500 mA

2 %
0.3 %
± 3 %
1 %
< 0.30 mA

2.5 mm²
400'000 h
206 g
-25°C up to + 70°C
Convection cooling
80 x 83 x 47 mm

Triple

100 ... 240 V AC
max. 0.25 A
0.5 A lag
47 ... 63 Hz

15 W
5 V DC, 2 A, and also
± 12 V DC, ± 200 mA
± 15 V DC, ± 150 mA

2 %
0.3 %
± 3 %
1 %
< 0.30 mA

2.5 mm²
400'000 h
206 g
-25°C up to + 70°C
Convection cooling
80 x 83 x 47 mm



Properties

- High-grade DIN rail power supply
- Embedded AC/DC converter
- Large input voltage range
- High efficiency up to 80 %
- High reliability (MTBF > 400'000 h)
- Protected against overvoltage
- Protected against overload current
- Protected against short-circuits
- Regulated output voltages
- Single, double and triple outputs
- Regulator: FCC Class B, VCCI Class B
cUL 1950, EN 60950, CE
- Can be mounted on rails to EN 60715 TH 35-7.5 and EN 60715 TH 35-15



On request

Pluggable terminals



Technical data

Input

Rated voltage range
Current
Primary fuse protection
Supply frequency

Output

Power
Voltages and currents

Voltage tolerance
Max. supply regulation
Load regulation (no-load operation up to full load)
Max. output ripple
Leakage current

General data

Rated cross section of connecting terminals
MTBF
Weight
Operating temperature range
Cooling
Size W x H x D



Order numbers

5 V DC
12 V DC
15 V DC
24 V DC

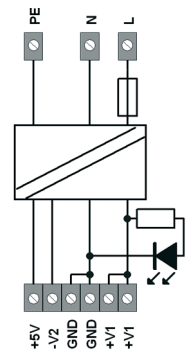
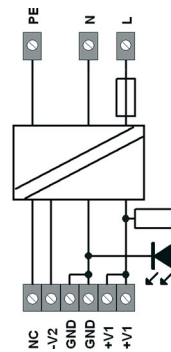
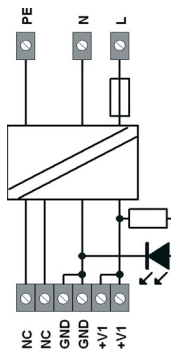
45404C/05S
45404C/12S
45404C/15S
45404C/24S

45404C/05D
45404C/12D
45404C/15D

45404C/12T
45404C/15T



45404C/24S



Single

100 - 240 V AC
max. 0.5 A
0.5 A lag
47 - 63 Hz

30 W
5 V DC, 6 A
12 V DC, 2.5 A
15 V DC, 2 A
24 V DC, 1.25 mA

2 %
0.3 %
± 3 %
1 %
< 0.30 mA

2.5 mm²
400'000 h
321 g
-25°C up to +70°C
Convection cooling
95 x 83 x 50 mm

Double

100 - 240 V AC
max. 0.5 A
0.5 A lag
47 - 63 Hz

30 W
± 5 V DC, ± 3 A
± 12 V DC, ± 1.3 A
± 15 V DC, ± 1 A

2 %
0.3 %
± 3 %
1 %
< 0.30 mA

2.5 mm²
400'000 h
321 g
-25°C up to +70°C
Convection cooling
95 x 83 x 50 mm

Triple

100 - 240 V AC
max. 0.5 A
0.5 A lag
47 - 63 Hz

30 W
5 V DC, 3 A, and also
± 12 V DC, ± 630 mA
± 15 V DC, ± 500 mA

2 %
0.3 %
± 3 %
1 %
< 0.30 mA

2.5 mm²
400'000 h
321 g
-25°C up to +70°C
Convection cooling
95 x 83 x 50 mm

Switching power supplies 84W-120W

Single and double outputs

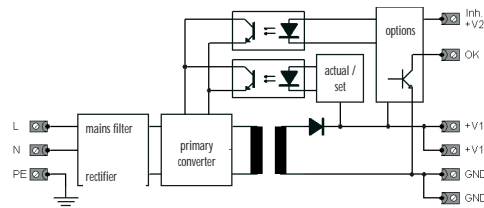


Properties

- High grade DIN rail power supply with an attractive quality-price ratio
- Large input voltage range
- Robust metal housing protected against vibration
- High efficiency up to 84 %
- High reliability (MTBF > 260'000 h)
- Output SELV (safety low voltage)
- Protected against short circuit
- Integrated overvoltage protection
- Single versions with inhibit input to switch off the output (5 - 10 V DC / about 5 mA)
- OK output for remote monitoring (open collector, max. 45 VDC / 20 mA)
- Parallel connection of several power supplies possible
- In- and outputs with PCB connectors
- EMC standards:
IEC 801, NAMUR, EN 61000-3-2 Class A,
EN 55011 / EN 55022 Class B
- Safety standards:
IEC 950, EN 60950, UL 1950, CSA 22.2 / 950
- Approvals:
EN 60950, , (c us in preparation)



45406/J24D



Technical data

Input

Rated voltage
Voltage range
Current
Supply frequency
Bridging time at full load
Fuse protection (replaced by manufacturer)

Output

Adjustment range of the output voltage
(can be adjusted by an internal 10-turn potentiometer accessible from outside)
Second output of 45406J/12D
Second output of 45406J/24D
Max. supply regulation at full load (188...264 V AC)
Static load regulation (I_{out} : 0 %...100 %, 24 V DC)
Dynamic load regulation (I_{out} : 10 %...90 %...10 %)
Start-up time
Max. output ripple (24 V DC)
Max. output noise
Overvoltage protection (12 / 24 / 48 V DC)
Temperature coefficient

General data

Rated cross section of connecting terminals
Weight
Protection degree
Cooling
Size W x H x D



Order numbers

12 VDC / 7 A (11 ... 15 V DC)
24 VDC / 5 A (23 ... 28 V DC)
48 VDC / 2.5 A (40 ... 55 V DC)

Single

115 / 230 V AC (front switch)
94 ... 132 V AC / 188 ... 264 V AC
typ. 2.5 A / 1.5 A, max. 5 A
47 ... 63 Hz
20 / 30 ms
4 A lag

- 5 % up to + 20 %

± 0.2 %
typ. - 0.1 V / A
typ. ± 0.2 %
typ. 700 ms
80 mVpp
100mVpp
22 / 32 / 64 V DC
 ± 0.01 % / K

2.5 mm²
850 g
IP 20
Convection cooling
70 x 130 x 110 mm

45406J/12S
45406J/24S
45406J/48S

Double

115 / 230 V AC (front switch)
94 ... 132 V AC / 188 ... 264 V AC
typ. 2.5 A / 1.5 A, max. 5 A
47 ... 63 Hz
20 / 30 ms
4 A lag

- 5 % up to + 20 %

3 ... 10 V DC, 1 A
3 ... 18 V DC, 1 A
 ± 0.2 %
typ. - 0.1 V / A
typ. ± 0.2 %
typ. 700 ms
80 mVpp
100mVpp
22 / 32 / 64 V DC
 ± 0.01 % / K

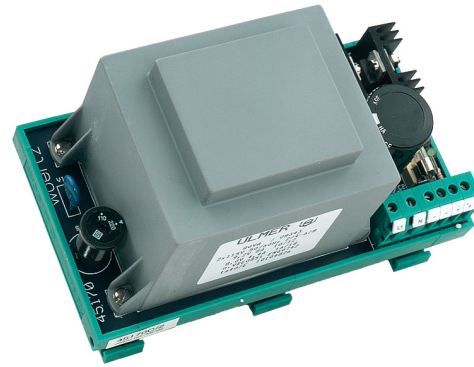
2.5 mm²
900 g
IP 20
Convection cooling
70 x 130 x 110 mm

45406J/12D
45406J/24D

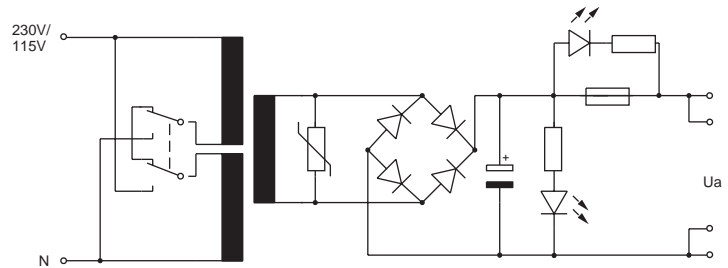


Properties

- Operating and fuse LEDs
- Low ripple
- When installing these modules ventilation must be sufficient
- Protected against overvoltage
- Switchable between 115 or 230 V AC input



45170C/2



Technical data

Supply voltage
Output voltage range V DC
Output power
Output current
Fuse
Ripple ΔU_{eff} max. at $I_{nom} = 3 A$
Operating temperature

Size W x H x D



Order numbers

Output voltage 24 V DC

230 V AC / 115 V AC (switch on the module)

21 - 28.5

72 W

3 A

3.15 A lag

0.5 V

-20°C up to +56°C

150 x 83 x 84 mm

45170C/2

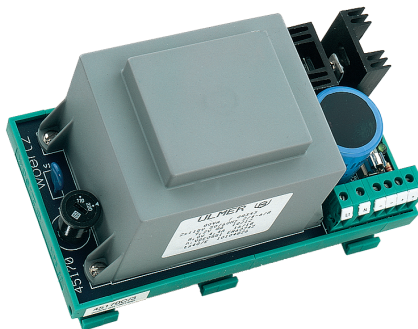
Smoothed power supplies

Output current 5 A

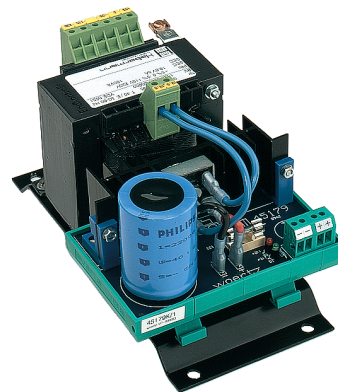


Properties

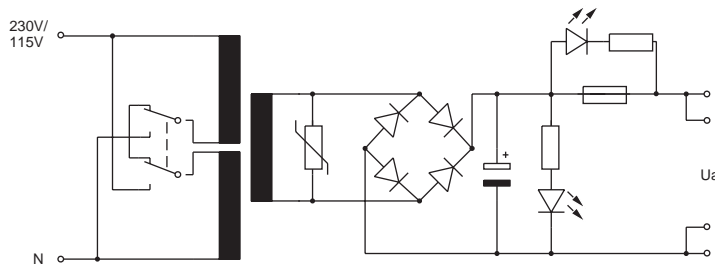
- Operating and fuse LEDs
- Low ripple
- When installing these modules ventilation must be sufficient
- Protected against overvoltages



45170C/3



45179K/1



Type 45170C/3 (for 45179K/1 see next page)



Technical data

Supply voltage
Output voltage range V DC
Output power
Output current
Ripple ΔU_{eff} max. at $I_{nom} = 5 A$
Fuse
Operating temperature

Size W x H x D
Distance between fixing holes

Output voltage 12 V DC

230 V AC / 115 V AC (switch on the module)
10.5 - 14.5
60 W
5 A
0.5 V
5 A lag
-20°C up to +56°C

150 x 83 x 84 mm

45170C/3

Output voltage 24 V DC

230 V AC / 115 V AC (different terminals)
23 - 28.5
120 W
5 A
0.6 V
5 A lag
-20°C up to +40°C

130 x 215 x 152 mm
73 x 200 mm

45179K/1

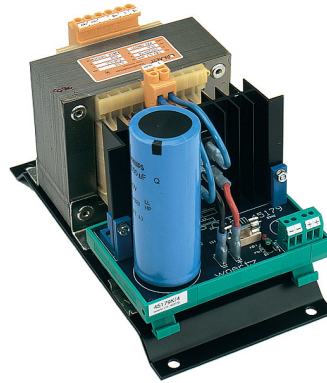


Order numbers

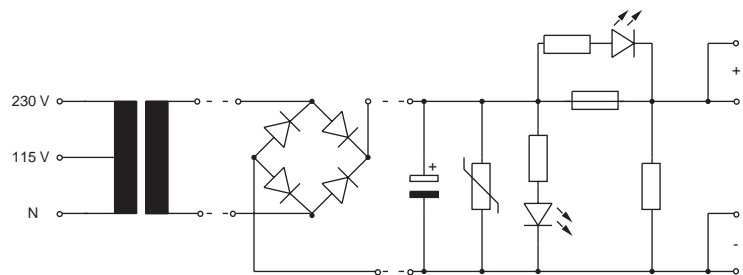


Properties

- Operating and fuse LEDs
- Low ripple
- When installing these modules ventilation must be sufficient
- Protection against overvoltage at the output
- Both transformer and module are fitted together on a steel plate for screw fixing



45179K/4



Technical data

Supply voltage
Output voltage range V DC
Output power
Output current
Fuse
Ripple ΔU_{eff} max. at $I_{\text{nom}} = 10 \text{ A}$
Operating temperature

Size W x H x D
Interval between fixing holes



Order numbers

Output voltage 24 V DC

230 V AC / 115 V AC (different terminals)
23.5 - 28.5
240 W
10 A
10 A lag
1.0 V
-20°C up to +40°C

130 x 240 x 152 mm
99 x 225 mm

45179K/4

Power supply components

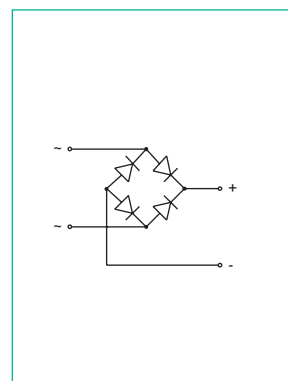
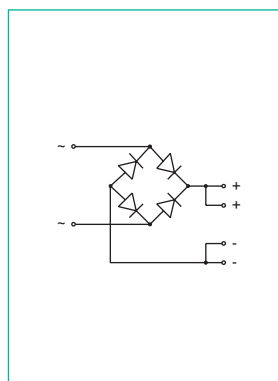
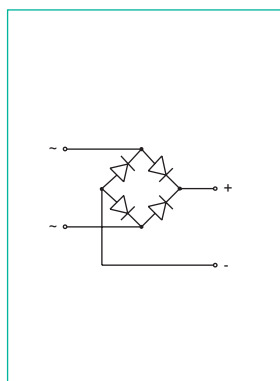
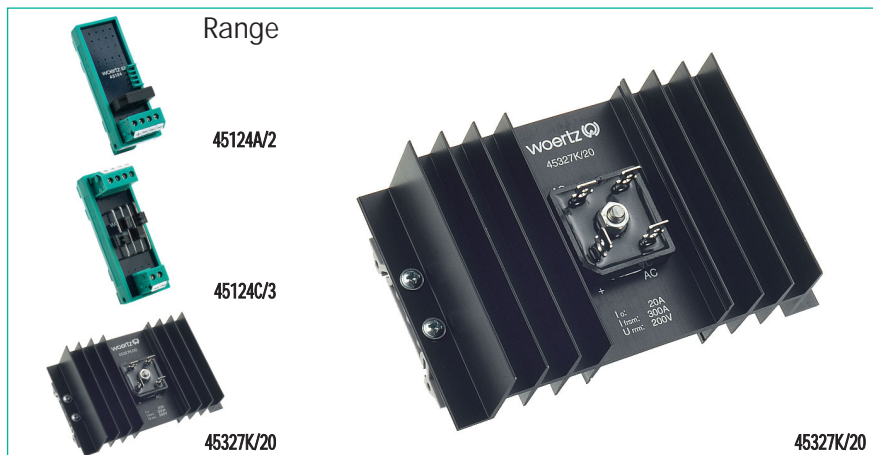
Modules with rectifiers



Properties

- Modules with bridge rectifier
- Because of the rise in temperature these modules should not operate at a current higher than the rated one
- Because there is no touch protection, only a voltage of max. 30 V AC should be applied to the 3 A and 20 A versions

Range



Technical data

Rated voltage
Blocking voltage
Constant current
Rated current
Surge current
Operating temperature
Forward voltage V_f
Reverse current I_r
Connections
Size W x H x D

250 V AC / 2 A

250 V AC
800 V DC
2 A
4 A*
200 A (max. 8.3 ms)
-55°C up to +45°C
screw terminals 2.5 mm²
30 x 83 x 43 mm

45124A/2

30 V AC / 3 A

30 V AC
800 V DC
3 A
6 A*
200 A (max. 8.3 ms)
-55°C up to +45°C
0.9 V
25 µA
screw terminals 2.5 mm²
30 x 83 x 43 mm

45124C/3

30 V AC / 20 A

30 V AC
200 V DC
20 A
25 A
300 A
-55°C up to +45°C
1.2 V
10 µA
6.3 mm fast-on connectors
120 x 75 x 50 mm

45327K/20

* (without specific cooling
max. 5s.)

* (without specific cooling
max. 5s.)



Order numbers

