

Power supplies and UPS

Power supply units

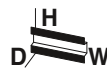
MINI POWER power supply units - for measurement and control technology

MINI POWER, 1 AC, 24 V DC

- Easy-to-maintain connection method thanks to keyed COMBICON connector
- Remote monitoring of output voltage via switching output

MINI POWER, NEC Class 2

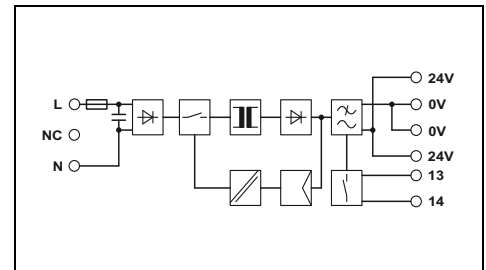
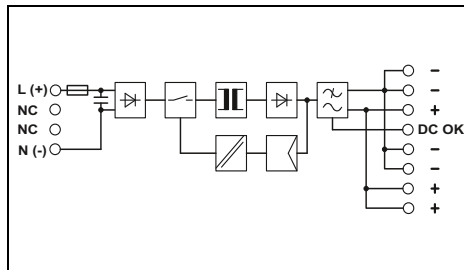
- Output power limited to 100 W: Specifically for applications that require certification according to UL 1310/508 Listed Class 2



Power supply,
1 AC, 24 V DC, 1.3 A
NEC Class 2



Power supply,
1 AC, 24 V DC, 1.5 A,
DIN rail connector optional



Technical data

Input data	100 V AC ... 240 V AC
Nominal input voltage range	85 V AC ... 264 V AC / 90 V DC ... 350 V DC
Input voltage range	45 Hz ... 65 Hz
Frequency range	0.65 A (120 V AC) / 0.25 A (230 V AC)
Current consumption (nominal load)	< 15 A / 0.6 A ² s
Inrush current limitation at 25°C (typ.) / I ² t	> 20 ms (120 V AC) / > 110 ms (230 V AC)
Mains buffering (I _N , typ.)	
Output data	24 V DC ±1 %
Nominal output voltage	22.5 V DC ... 28.5 V DC (> 24 V constant capacity)
Setting range of the output voltage	
Output current / POWER BOOST	1.3 A / 1.6 A
Can be connected in parallel / series	Yes / Yes
Max. power dissipation (no load / nominal load)	0.9 W / 4.5 W
Efficiency (typ.)	> 85% (for 230 V AC and nominal values)
Residual ripple	< 20 mV _{pp}
Signaling	LED, active switching output
Signaling DC OK	
General data	
Weight / Dimensions W x H x D	0.2 kg / 22.5 x 99 x 107 mm
Spacing when mounting	Alignable: horizontally 0 mm, vertically 50 mm
Connection method	Plug-in screw connection
Connection data solid / stranded / AWG	0.2 - 2.5 mm ² / 0.2 - 2.5 mm ² / 24 - 12
Degree of protection / Protection class	IP20 / II
MTBF (IEC 61709, SN 29500)	> 1104000 h (40°C)
Ambient temperature (operation)	-25°C ... 70°C (> 60°C derating: 2.5%/K)
Standards/regulations	
Insulation voltage input/output	3 kV (routine test) / 4 kV (type test)
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Electrical safety	EN 60950-1/VDE 0805 (SELV)
Electronic equipm. for electrical power installations	EN 50178/VDE 0160 (PELV)
Safe isolation	DIN VDE 0100-410
UL approvals	UL/C-UL listed UL 508, UL/C-UL Recognized UL 60950, UL ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D (Hazardous Location), NEC Class 2 as per UL 1310
Limitation of harmonic line currents	EN 61000-3-2

Technical data

Input data	100 V AC ... 240 V AC
Nominal input voltage range	85 V AC ... 264 V AC
Input voltage range	45 Hz ... 65 Hz
Frequency range	0.75 A (120 V AC) / 0.45 A (230 V AC)
Current consumption (nominal load)	< 15 A / 0.6 A ² s
Inrush current limitation at 25°C (typ.) / I ² t	> 35 ms (120 V AC) / > 150 ms (230 V AC)
Mains buffering (I _N , typ.)	
Output data	24 V DC ±1 %
Nominal output voltage	-
Setting range of the output voltage	
Output current / POWER BOOST	1.5 A / 2 A
Can be connected in parallel / series	Yes / No
Max. power dissipation (no load / nominal load)	1.5 W / 6.5 W
Efficiency (typ.)	> 84% (for 230 V AC and nominal values)
Residual ripple	< 40 mV _{pp}
Signaling	LED, relay contact
Signaling DC OK	
General data	
Weight / Dimensions W x H x D	0.25 kg / 35 x 99 x 95 mm
Spacing when mounting	Alignable: horizontally 0 mm, vertically 50 mm
Connection method	Plug-in screw connection
Connection data solid / stranded / AWG	0.2 - 2.5 mm ² / 0.2 - 2.5 mm ² / 24 - 12
Degree of protection / Protection class	IP20 / II
MTBF (IEC 61709, SN 29500)	> 2789000 h (40°C)
Ambient temperature (operation)	-25°C ... 70°C (> 60°C derating: 2.5%/K)
Standards/regulations	
Insulation voltage input/output	3 kV (routine test) / 4 kV (type test)
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Electrical safety	EN 60950-1/VDE 0805 (SELV)
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Ordering data

Type	Order No.	Pcs. / Pkt.
Power supply, primary-switched		
MINI-PS-100-240AC/24DC/1.3	2866446	1

Accessories

DIN rail connector (optional), for routing through the supply voltage and data signal, two pieces are required per device		
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Ordering data

Type	Order No.	Pcs. / Pkt.
Power supply, primary-switched		
MINI-SYS-PS-100-240AC/24DC/1.5	2866983	1

Accessories

ME 17.5 TBUS 1/5, 5-ST-3,81 GN	2709561	10
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