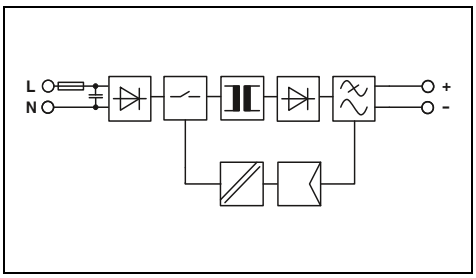
UNO POWER power supplies – compact with basic functionality

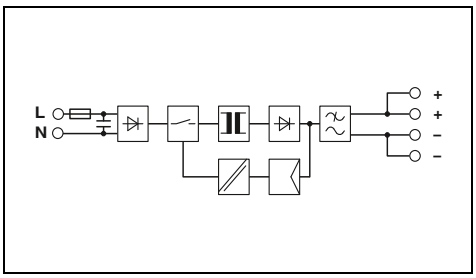
UNO POWER, 1 AC, 12 V DC and 24 V DC

- The wide range of products covers all common voltage levels
- Maximum energy efficiency: save energy thanks to high efficiency and extremely low idling losses
- Save space in the control cabinet thanks to extremely high power density
- Housing height of 84 mm, tailored to all popular 120 mm control boxes
- Wide temperature range from -25°C to +70°C

Power supply, 1 AC, 24 DC, 30 W NEC Class 2

Power supply, 1 AC, 24 DC, 60 W NEC Class 2





	Technical data	Technical data
Input data		
Nominal input voltage range	100 V AC ... 240 V AC	100 V AC ... 240 V AC
Input voltage range	85 V AC ... 264 V AC	85 V AC ... 264 V AC
Frequency range	45 Hz ... 65 Hz	45 Hz ... 65 Hz
Current consumption (nominal load)	0.5 A (120 V AC) / 0.3 A (230 V AC)	1 A (120 V AC) / 0.6 A (230 V AC)
Inrush current limitation at 25°C (typ.) / I^2t	< 20 A / < 0.4 A^2s	< 30 A / < 0.5 A^2s
Mains buffering (I_N, typ.)	> 25 ms (120 V AC) / > 115 ms (230 V AC)	> 20 ms (120 V AC) / > 85 ms (230 V AC)
Output data		
Nominal output voltage	24 V DC ±1 %	24 V DC ±1 %
Output current	1.25 A	2.5 A
Can be connected in parallel / series	Yes, with redundancy module / Yes	Yes, with redundancy module / Yes
Max. power dissipation (no load / nominal load)	< 0.3 W / < 5 W	< 0.3 W / < 7 W
Efficiency (typ.)	> 88% (for 230 V AC and nominal values)	> 90% (for 230 V AC and nominal values)
Residual ripple	< 60 mV_{PP}	< 30 mV_{PP}
Signaling		
Signaling DC OK	LED	LED
General data		
Weight / Dimensions W x H x D	0.15 kg / 22.5 x 90 x 84 mm	0.2 kg / 35 x 90 x 84 mm
Spacing when mounting	Alignable: 0 mm horizontally, 30 mm vertically	Alignable: 0 mm horizontally, 30 mm vertically
Connection method	Screw connection	Screw connection
Connection data solid / stranded / AWG	0.2 - 2.5 mm^2 / 0.2 - 2.5 mm^2 / 24 - 14	0.2 - 2.5 mm^2 / 0.2 - 2.5 mm^2 / 24 - 14
Degree of protection / Protection class	IP20 / II	IP20 / II
MTBF (IEC 61709, SN 29500)	> 1158000 h (40°C)	> 785000 h (40°C)
Ambient temperature (operation)	-25°C ... 70°C (> 55° C derating: 2.5%/K)	-25°C ... 70°C (> 55° C derating: 2.5%/K)
Standards/regulations		
Insulation voltage input/output	3 kV AC (routine test) / 4 kV AC (type test)	3 kV AC (routine test) / 4 kV AC (type test)
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC	Conformance with EMC Directive 2004/108/EC
Electrical safety	IEC 60950-1/VDE 0805 (SELV)	IEC 60950-1/VDE 0805 (SELV)
Electronic equipm. for electrical power installations	EN 50178/VDE 0160 (PELV)	EN 50178/VDE 0160 (PELV)
Safe isolation	DIN VDE 0100-410	DIN VDE 0100-410
UL approvals	UL/C-UL listed UL 508, UL/C-UL Recognized UL 60950, NEC Class 2 as per UL 1310	UL Listed UL 508, UL/C-UL Recognized UL 60950, NEC Class 2 as per UL 1310
Limitation of harmonic line currents	EN 61000-3-2	EN 61000-3-2

	Ordering data			Ordering data		
Description	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Power supply, primary-switched						
	UNO-PS/1AC/24DC/ 30W	**2902991**	1	**UNO-PS/1AC/24DC/ 60W**	**2902992**	1