

Power supplies and UPS

Power supplies

UNO POWER power supplies – Compact basic functionality

UNO POWER, 1 AC, 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
- 84 mm housing depth for devices up to 100 W, tailored to all standard 120 mm control boxes
- Wide temperature range from -25°C to +70°C

UNO POWER, NEC Class 2

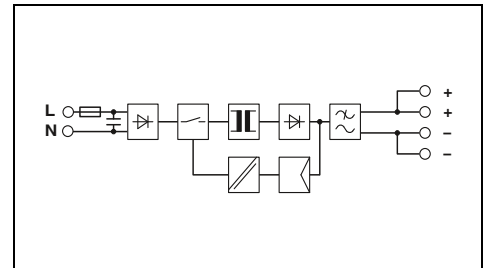
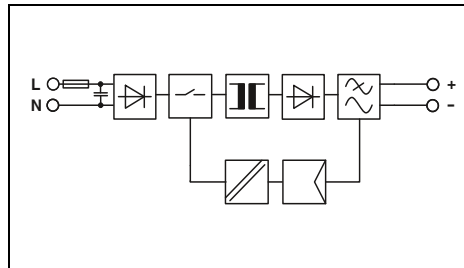
- Output power limited to 100 W
- Specifically for applications that require certification in accordance with UL 1310/508 Listed Class 2



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



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



Technical data

Input data	
Nominal input voltage range	100 V AC ... 240 V AC
Input voltage range	85 V AC ... 264 V AC
Frequency range (f _N)	50 Hz ... 60 Hz ±10%
Current consumption (nominal load)	0.8 A (100 V AC) / 0.4 A (240 V AC)
Inrush current limitation at 25°C / I _{Pt}	< 20 A / < 0.4 A ² s
Mains buffering (I _N)	typ. 25 ms (120 V AC) / typ. 115 ms (230 V AC)
Output data	
Nominal output voltage (U _N)	24 V DC ±1%
Output current	1.25 A
Can be connected in parallel/series	yes, with redundancy module / yes
Max. power dissipation (no load/nominal load)	< 0.3 W / < 5 W
Efficiency	typ. 87% (120 V AC) / typ. 88% (230 V AC)
Residual ripple	< 60 mV _{pp}
Signaling	
Signaling DC OK	LED
General data	
Weight / Dimensions W x H x D	0.15 kg / 22.5 x 90 x 84 mm
Connection	alignable: 0 mm horizontally, 30 mm vertically
Connection method	Screw connection
Connection data rigid / flexible / AWG	0.2 - 2.5 mm ² / 0.2 - 2.5 mm ² / 24 - 14
Degree of protection / Protection class	IP20 / II
MTBF (IEC 61709, SN 29500)	> 1158000 h (40°C)
Ambient temperature (operation)	-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)
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Electrical safety	IEC 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 60950-1, NEC Class 2 as per UL 1310, UL/C-UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D T4 (Hazardous Location) EN 61000-3-2

Limitation of harmonic line currents

Ordering data

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

Technical data

Input data	
Nominal input voltage range	100 V AC ... 240 V AC
Input voltage range	85 V AC ... 264 V AC
Frequency range (f _N)	50 Hz ... 60 Hz ±10%
Current consumption (nominal load)	1.3 A (100 V AC) / 0.6 A (240 V AC)
Inrush current limitation at 25°C / I _{Pt}	< 30 A / < 0.5 A ² s
Mains buffering (I _N)	typ. 20 ms (120 V AC) / typ. 85 ms (230 V AC)
Output data	
Nominal output voltage (U _N)	24 V DC ±1%
Output current	2.5 A
Can be connected in parallel/series	yes, with redundancy module / yes
Max. power dissipation (no load/nominal load)	< 0.3 W / < 7 W
Efficiency	typ. 88% (120 V AC) / typ. 90% (230 V AC)
Residual ripple	< 30 mV _{pp}
Signaling	
Signaling DC OK	LED
General data	
Weight / Dimensions W x H x D	0.2 kg / 35 x 90 x 84 mm
Connection	alignable: 0 mm horizontally, 30 mm vertically
Connection method	Screw connection
Connection data rigid / flexible / AWG	0.2 - 2.5 mm ² / 0.2 - 2.5 mm ² / 24 - 14
Degree of protection / Protection class	IP20 / II
MTBF (IEC 61709, SN 29500)	> 785000 h (40°C)
Ambient temperature (operation)	-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)
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Electrical safety	IEC 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 60950-1, NEC Class 2 as per UL 1310, UL/C-UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D T4 (Hazardous Location) EN 61000-3-2

Ordering data

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



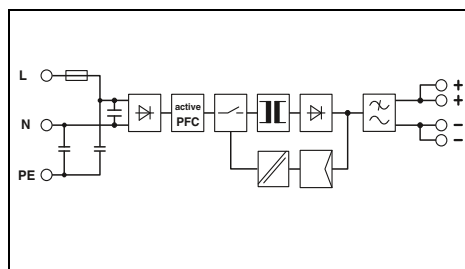
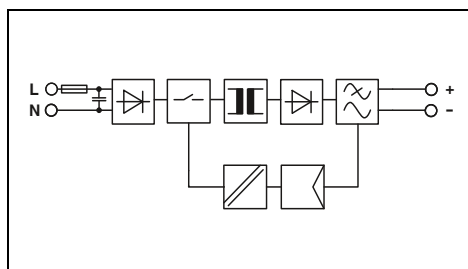
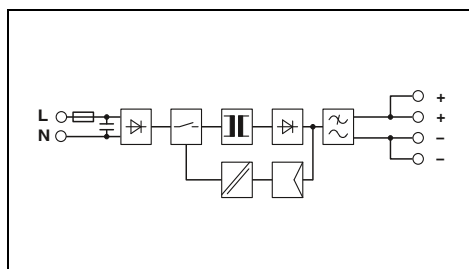
Power supply,
1 AC, 24 DC, 100 W



Power supply,
1 AC, 24 DC, 150 W



Power supply,
1 AC, 24 DC, 240 W



Technical data

100 V AC ... 240 V AC
85 V AC ... 264 V AC
50 Hz ... 60 Hz $\pm 10\%$
2.1 A (100 V AC) / 0.95 A (240 V AC)
< 40 A / < 1.5 A²s
typ. 20 ms (120 V AC) / typ. 100 ms (230 V AC)

24 V DC $\pm 1\%$
4.2 A
yes, with redundancy module / yes
< 0.5 W / < 11 W
typ. 88% (120 V AC) / typ. 89% (230 V AC)
< 30 mV_{pp}

LED

0.34 kg / 55 x 90 x 84 mm
alignable: 0 mm horizontally, 30 mm vertically
Screw connection
0.2 - 2.5 mm² / 0.2 - 2.5 mm² / 24 - 14
IP20 / II
> 738000 h (40°C)
-25°C ... 70°C (> 55°C Derating: 2.5%/K)

3 kV AC (routine test) / 4 kV AC (type test)
Conformance with EMC Directive 2014/30/EU
IEC 60950-1/VDE 0805 (SELV)
EN 50178/VDE 0160 (PELV)
DIN VDE 0100-410
UL/C-UL Listed UL 508, UL/C-UL Recognized UL 60950-1,
UL/C-UL Listed ANSI/ISA-12.12.01 Class I, Division 2,
Groups A, B, C, D T4 (Hazardous Location)
EN 61000-3-2

Ordering data

Type	Order No.	Pcs./Pkt.
UNO-PS/1AC/24DC/100W	2902993	1

Technical data

100 V AC ... 240 V AC
85 V AC ... 264 V AC
50 Hz ... 60 Hz $\pm 10\%$
1.66 A (100 V AC) / 0.68 A (240 V AC)
< 50 A / < 0.8 A²s
typ. 20 ms (120 V AC) / typ. 20 ms (230 V AC)

24 V DC $\pm 1\%$
6.25 A
yes, with redundancy module / No
< 1.2 W / < 9.7 W
typ. 91% (120 V AC) / typ. 94% (230 V AC)
< 40 mV_{pp}

LED

0.5 kg / 37 x 130 x 125 mm
alignable: 0 mm horizontally, 30 mm vertically
Screw connection
0.2 - 2.5 mm² / 0.2 - 2.5 mm² / 24 - 14
IP20 / II
> 868000 h (40°C)
-25°C ... 70°C (> 55°C Derating: 2.5%/K)

3 kV AC (routine test) / 4 kV AC (type test)
Conformance with EMC Directive 2014/30/EU
EN 60950-1/VDE 0805 (SELV)
EN 50178/VDE 0160 (PELV)
DIN VDE 0100-410
UL/C-UL Listed UL 508, UL/C-UL Recognized UL 60950-1,
UL/C-UL Listed ANSI/ISA-12.12.01 Class I, Division 2,
Groups A, B, C, D T4 (Hazardous Location)
EN 61000-3-2

Ordering data

Type	Order No.	Pcs./Pkt.
UNO-PS/1AC/24DC/150W	2904376	1

Technical data

100 V AC ... 240 V AC
85 V AC ... 264 V AC
50 Hz ... 60 Hz $\pm 5\%$
2.69 A (100 V AC) / 1.08 A (240 V AC)
< 80 A / < 2 A²s
typ. 10 ms (120 V AC) / typ. 10 ms (230 V AC)

24 V DC $\pm 1\%$
10 A
yes, with redundancy module / No
< 1.1 W / < 18.8 W
typ. 90% (120 V AC) / typ. 93% (230 V AC)
< 50 mV_{pp}

LED

0.66 kg / 45 x 130 x 125 mm
alignable: 0 mm horizontally, 30 mm vertically
Screw connection
0.2 - 2.5 mm² / 0.2 - 2.5 mm² / 24 - 14
IP20 / I
> 641000 h (40°C)
-25°C ... 70°C (> 55°C Derating: 2.5%/K)

3 kV AC (routine test) / 4 kV AC (type test)
Conformance with EMC Directive 2014/30/EU
EN 60950-1/VDE 0805 (SELV)
EN 50178/VDE 0160 (PELV)
DIN VDE 0100-410
UL/C-UL Listed UL 508, UL/C-UL Recognized UL 60950-1,
UL/C-UL Listed ANSI/ISA-12.12.01 Class I, Division 2,
Groups A, B, C, D T4 (Hazardous Location)
EN 61000-3-2

Ordering data

Type	Order No.	Pcs./Pkt.
UNO-PS/1AC/24DC/240W	2904372	1

Power supplies and UPS

Power supplies

UNO POWER power supplies – Compact basic functionality

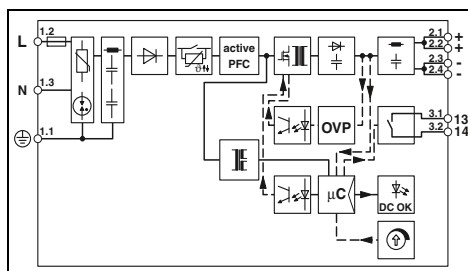
UNO POWER, 1 AC, 24 V DC, 480 W

- 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
- Wide temperature range from -25°C to +70°C
- Active function monitoring with DC OK LED and relay contact



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Power supply,
1 AC, 24 DC, 480 W



Technical data

Input data	
Nominal input voltage range	100 V AC ... 240 V AC
Input voltage range	100 V AC ... 240 V AC -15% ... +10%
Frequency range (f_N)	50 Hz ... 60 Hz $\pm 10\%$
Current consumption (nominal load)	5.4 A (100 V AC) / 4.4 A (120 V AC)
Inrush current limitation at 25°C / I^2t	< 20 A / < 1 A ² s
Mains buffering (I_{N1})	typ. 20 ms (120 V AC) / typ. 20 ms (230 V AC)
Output data	
Nominal output voltage (U_N)	24 V DC
Output current	20 A
Can be connected in parallel/series	yes, with redundancy module / yes
Max. power dissipation (no load/nominal load)	< 4 W / < 36 W
Efficiency	typ. 93% (120 V AC) / typ. 94.6% (230 V AC)
Residual ripple	< 100 mV _{pp}
Signaling	
Signaling DC OK	LED, floating signal contact
General data	
Weight / Dimensions W x H x D	1 kg / 59 x 130 x 125 mm
Connection	alignable: 5 mm horizontally, 15 mm next to active components, 30 mm vertically
Connection method	Screw connection
Connection data rigid / flexible / AWG	0.2 - 6 mm ² / 0.2 - 4 mm ² / 24 - 10
Degree of protection / Protection class	IP20 / I
MTBF (IEC 61709, SN 29500)	> 500000 h (40°C)
Ambient temperature (operation)	-25°C ... 70°C (> 55°C Derating: 2.5%/K)
Standards/regulations	
Insulation voltage input/output	2.5 kV AC (routine test) / 4.43 kV AC (type test)
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Electrical safety	IEC 61010-2-01 (SELV)
Electronic equipm. for electrical power installations	EN 50178/VDE 0160 (PELV)
Safe isolation	IEC 61558-2-16, IEC 61010-2-01
UL approvals	UL/C-UL Listed UL 61010-1, UL/C-UL Listed UL 61010-2-201
Limitation of harmonic line currents	EN 61000-3-2

Ordering data

Description	Type	Order No.	Pcs./Pkt.
Power supply, primary-switched	UNO2-PS/1AC/24DC/480W	2910105	1

UNO POWER power supplies – Compact basic functionality

UNO POWER, 1 AC and 2 AC, 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 depth 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, 90 W
NEC Class 2



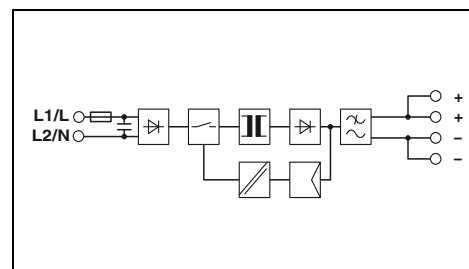
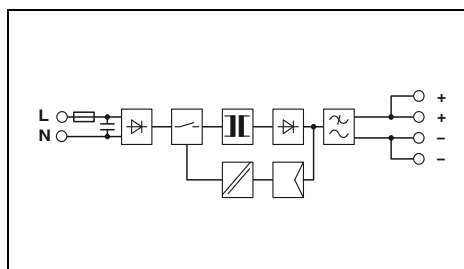
Power supply,
2 AC, 24 DC, 90 W
NEC Class 2



UNO POWER, NEC Class 2

Output power limited to 100 W

- Specifically for applications that require certification in accordance with UL 1310/508 Listed Class 2



Technical data	
Input data	
Nominal input voltage range	100 V AC ... 240 V AC
Input voltage range	85 V AC ... 264 V AC
Frequency range (f_N)	50 Hz ... 60 Hz $\pm 10\%$
Current consumption (nominal load)	1.8 A (100 V AC) / 0.8 A (240 V AC)
Inrush current limitation at 25°C / $I_{\Delta t}$	< 40 A / < 1.5 A ² s
Mains buffering (I_N)	typ. 25 ms (120 V AC) / typ. 100 ms (230 V AC)
Output data	
Nominal output voltage (U_N)	24 V DC $\pm 1\%$
Output current	3.75 A
Can be connected in parallel/series	No / No
Max. power dissipation (no load/nominal load)	< 0.5 W / < 12 W
Efficiency	typ. 88% (120 V AC) / typ. 88% (230 V AC)
Residual ripple	< 45 mV _{pp}
Signaling	
Signaling DC OK	LED
General data	
Weight / Dimensions W x H x D	0.34 kg / 55 x 90 x 84 mm
Connection	alignable: 0 mm horizontally, 30 mm vertically
Connection method	Screw connection
Connection data rigid / flexible / AWG	0.2 - 2.5 mm ² / 0.2 - 2.5 mm ² / 24 - 14
Degree of protection / Protection class	IP20 / II
MTBF (IEC 61709, SN 29500)	> 1159000 h (40°C)
Ambient temperature (operation)	-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)
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Electrical safety	IEC 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 60950-1, NEC Class 2 as per UL 1310, UL/C-UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D T4 (Hazardous Location) EN 61000-3-2
Limitation of harmonic line currents	

Description
Power supply, primary-switched

Technical data		
Input data		
Nominal input voltage range	2x 400 V AC ... 500 V AC	
Input voltage range	2x 264 V AC ... 575 V AC	
Frequency range (f_N)	50 Hz ... 60 Hz $\pm 10\%$	
Current consumption (nominal load)	0.55 A (400 V AC) / 0.48 A (500 V AC)	
Inrush current limitation at 25°C / $I_{\Delta t}$	< 30 A / < 0.5 A ² s	
Mains buffering (I_N)	typ. 65 ms (400 V AC) / typ. 100 ms (500 V AC)	
Output data		
Nominal output voltage (U_N)	24 V DC $\pm 1\%$	
Output current	3.75 A	
Can be connected in parallel/series	No / No	
Max. power dissipation (no load/nominal load)	< 0.7 W / < 12 W	
Efficiency	typ. 89% (400 V AC) / typ. 89% (480 V AC)	
Residual ripple	< 50 mV _{pp}	
Signaling		
Signaling DC OK	LED	
General data		
Weight / Dimensions W x H x D	0.32 kg / 55 x 90 x 84 mm	
Connection	alignable: 0 mm horizontally, 30 mm vertically	
Connection method	Screw connection	
Connection data rigid / flexible / AWG	0.2 - 2.5 mm ² / 0.2 - 2.5 mm ² / 24 - 14	
Degree of protection / Protection class	IP20 / II	
MTBF (IEC 61709, SN 29500)	> 828000 h (40°C)	
Ambient temperature (operation)	-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)	
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU	
Electrical safety	IEC 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 60950-1, NEC Class 2 as per UL 1310, UL/C-UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D T4 (Hazardous Location) EN 61000-3-2	
Limitation of harmonic line currents		

Ordering data		
Type	Order No.	Pcs./Pkt.
UNO-PS/1AC/24DC/90W/C2LPS	2902994	1

Technical data		
Input data		
Nominal input voltage range	2x 400 V AC ... 500 V AC	
Input voltage range	2x 264 V AC ... 575 V AC	
Frequency range (f_N)	50 Hz ... 60 Hz $\pm 10\%$	
Current consumption (nominal load)	0.55 A (400 V AC) / 0.48 A (500 V AC)	
Inrush current limitation at 25°C / $I_{\Delta t}$	< 30 A / < 0.5 A ² s	
Mains buffering (I_N)	typ. 65 ms (400 V AC) / typ. 100 ms (500 V AC)	
Output data		
Nominal output voltage (U_N)	24 V DC $\pm 1\%$	
Output current	3.75 A	
Can be connected in parallel/series	No / No	
Max. power dissipation (no load/nominal load)	< 0.7 W / < 12 W	
Efficiency	typ. 89% (400 V AC) / typ. 89% (480 V AC)	
Residual ripple	< 50 mV _{pp}	
Signaling		
Signaling DC OK	LED	
General data		
Weight / Dimensions W x H x D	0.32 kg / 55 x 90 x 84 mm	
Connection	alignable: 0 mm horizontally, 30 mm vertically	
Connection method	Screw connection	
Connection data rigid / flexible / AWG	0.2 - 2.5 mm ² / 0.2 - 2.5 mm ² / 24 - 14	
Degree of protection / Protection class	IP20 / II	
MTBF (IEC 61709, SN 29500)	> 828000 h (40°C)	
Ambient temperature (operation)	-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)	
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU	
Electrical safety	IEC 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 60950-1, NEC Class 2 as per UL 1310, UL/C-UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D T4 (Hazardous Location) EN 61000-3-2	
Limitation of harmonic line currents		

Ordering data		
Type	Order No.	Pcs./Pkt.
UNO-PS/2AC/24DC/90W/C2LPS	2904371	1