

1088850

https://www.phoenixcontact.com/in/products/1088850

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Primary-switched UNO POWER power supply for DIN rail mounting, input: 1-phase, output: 12 V DC/55 W

Product Description

UNO POWER power supplies with basic functionality

Thanks to their high power density, compact UNO POWER power supplies are the ideal solution for loads up to 240 W, particularly in compact control boxes. The power supply units are available in various performance classes and overall widths. Their high degree of efficiency and low idling losses ensure a high level of energy efficiency.

Your advantages

- Flexible mounting by simply snapping onto the DIN rail
- More space in the control cabinet with up to 20 % higher power density
- · Maximum energy efficiency, thanks to over 90 % efficiency and extremely low idling losses under 0.3 W
- Outdoor installation, thanks to the wide temperature range from -25°C to +70°C

Commercial Data

Item number	1088850
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CMP
Product Key	CMPU1Y
GTIN	4055626890654
Weight per Piece (including packing)	239.2 g
Weight per Piece (excluding packing)	200 g
Customs tariff number	85044083
Country of origin	DE



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Technical Data

Input data

AC operation

AC operation	
Nominal input voltage range	100 V AC 240 V AC
Input voltage range	85 V AC 264 V AC
Input voltage range AC	85 V AC 264 V AC
Voltage type of supply voltage	AC
Inrush current	< 30 A (typical)
Inrush current integral (I ² t)	$< 0.5 A^2 s$
Frequency range (f _N)	50 Hz 60 Hz ±10 %
Mains buffering time	> 20 ms (120 V AC)
	> 90 ms (230 V AC)
Current consumption	1.3 A (100 V AC)
	0.6 A (240 V AC)
Nominal power consumption	127 VA
Protective circuit	Transient surge protection; Varistor
Power factor (cos phi)	0.49
Typical response time	<1s
Input fuse	2 A (slow-blow, internal)
Permissible backup fuse	B6 B10 B16
Recommended breaker for input protection	6 A 16 A (Characteristics B, C, D, K)

Output data

Efficiency	typ. 87 % (120 V AC)
	typ. 88 % (230 V AC)
Nominal output voltage	12 V DC ±1 %
Nominal output current (I _N)	4.6 A (-25 °C 55 °C)
Derating	55 °C 70 °C (2.5%/K)
Feedback voltage resistance	< 25 V DC
Protection against overvoltage at the output (OVP)	≤ 25 V DC
Control deviation	< 1 % (change in load, static 10 % 90 %)
	< 3 % (Dynamic load change 10 % 90 %, 10 Hz)
	< 0.1 % (change in input voltage ±10 %)
Residual ripple	< 30 mV _{PP} (with nominal values)
Output power	55 W
Maximum no-load power dissipation	< 0.3 W
Power loss nominal load max.	< 8 W
Rise time	< 0.5 s (U _{OUT} (10 % 90 %))
Response time	< 2 ms
Connection in parallel	yes, for redundancy and increased capacity
Connection in series	yes



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Connection data

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Connection method	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Stripping length	8 mm
Screw thread	M3
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

Output

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm ²
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Conductor cross section AWG min.	24
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Tightening torque max	0.6 Nm

LED signaling

Types of signaling	LED	

Electrical properties

Number of phases	1.00
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Product properties

Product type	Power supply
	UNO POWER
MTBF (IEC 61709, SN 29500)	> 865000 h (40 °C)

Insulation characteristics

Protection class	II (in closed control cabinet)
Degree of pollution	2

Dimensions

Width	35 mm
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Height	90 mm
Depth	84 mm
Installation dimensions	
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Installation distance right/left	0 mm / 0 mm

Mounting

Mounting type	DIN rail mounting
Assembly instructions	alignable: 0 mm horizontally, 30 mm vertically
Mounting position	horizontal DIN rail NS 35, EN 60715
With protective coating	No

Material specifications

Flammability rating according to UL 94 (housing / terminal blocks)	V0
Housing material	Plastic
Foot latch material	POM (Polyoxymethylene)
Housing material	Polycarbonate

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C 70 °C (> 55 °C Derating: 2.5 %/K)
Ambient temperature (storage/transport)	-40 °C 85 °C
Climatic class	3K3 (in acc. with EN 60721)
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)
Shock	18 ms, 30g, in each space direction (according to IEC 60068-2-27)
Vibration (operation)	< 15 Hz, amplitude ±2.5 mm (according to IEC 60068-2-6)
	15 Hz 150 Hz, 2.3g, 90 min.

Standards and regulations

Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Standard – Limitation of mains harmonic currents	EN 61000-3-2
Standard - Electrical safety	IEC 62368-1 (SELV)
Standard - Safety extra-low voltage	IEC 62368-1 (SELV) und EN 60204-1 (PELV)
Standard - Safe isolation	DIN VDE 0100-410
Standard - Safety of transformers	EN 61558-2-16
Approval - requirement of the semiconductor industry with regard to mains voltage dips	EN 61000-4-11

Approval data

CSA	CAN/CSA-C22.2 No. 60950-1-07
	CSA-C22.2 No. 107.1-01



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	CAN/CSA-C22.2 No. 213 Class I, Division 2, Groups A, B, C, D T4A (Hazardous Location)
UL approvals	UL/C-UL listed UL 508
	UL/C-UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D T4A (Hazardous Location)
	UL/C-UL Recognized UL 60950-1
Conformity/Approvals	
SIL in accordance with IEC 61508	0
MC data	
Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
EMC requirements for noise immunity	EN 61000-6-2
Noise immunity	EN 61000-6-2
Electrostatic discharge	
Standards/regulations	EN 61000-4-2
Electrostatic discharge	C 13/ /Tank aval 2)
Contact discharge	6 kV (Test Level 3)
Discharge in air	8 kV (Test Level 3)
Comments	Criterion A
Electromagnetic HF field	
Standards/regulations	EN 61000-4-3
Electromagnetic HF field	
Frequency range	80 MHz 1 GHz
Test field strength	10 V/m (Test Level 3)
Fast transients (burst)	
Standards/regulations	EN 61000-4-4
Fast transients (burst)	
Input	4 kV (Test Level 4 - asymmetrical)
Output	2 kV (Test Level 3 - asymmetrical)
Comments	Criterion A
Surge voltage load (surge)	T11 0.000 1.5
Standards/regulations	EN 61000-4-5
Conducted interference	
Standards/regulations	EN 61000-4-6
Conducted interference	
Input/Output	asymmetrical
Input/Output Frequency range	asymmetrical 0.15 MHz 80 MHz



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Voltage	10 V (Test Level 3)
Criteria	
Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

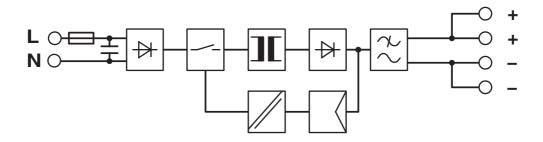


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Drawings

Block diagram





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Approvals



IECEE CB Scheme

Approval ID: SI-7106



EAC

Approval ID: RU S-DE.BL08.W.00764



EAC

Approval ID: RU S-DE.BL08.W.00764



cULus Listed

Approval ID: FILE E 123528



cULus Listed

Approval ID: FILE E 123528



EAC

Approval ID: RU S-DE.BL08.W.00764



IECEE CB Scheme

Approval ID: SI-7106



EAC

Approval ID: RU S-DE.BL08.W.00764



cULus Listed

Approval ID: FILE E 214596



cULus Listed

Approval ID: FILE E 214596



EAC

Approval ID: RU S-DE.BL08.W.00764



EAC

Approval ID: RU S-DE.BL08.W.00764



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cULus Listed Approval ID: FILE E 199827



cULus Listed Approval ID: FILE E 199827



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-9.0	27040701
ECLASS-10.0.1	27040701
ECLASS-11.0	27040701
ETIM	
ETIM 8.0	EC002540
UNSPSC	

39121000



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Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 25;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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Accessories

Redundancy module

Redundancy module - UNO-DIODE/5-24DC/2X10/1X20 - 2905489

https://www.phoenixcontact.com/in/products/2905489

Redundancy module, 5 V - 24 V DC, 2 x 10 A, 1 x 20 A.



Electronic circuit breaker

Electronic circuit breaker - CBMC E4 24DC/1-4A NO - 2906031

https://www.phoenixcontact.com/in/products/2906031



Multi-channel electronic circuit breaker for protecting four loads at 24 V DC in the event of overload and short circuit. With electronic locking of the set nominal currents. For installation on DIN rails.



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Electronic circuit breaker

Electronic circuit breaker - CBMC E4 24DC/1-10A NO - 2906032

https://www.phoenixcontact.com/in/products/2906032



Multi-channel electronic circuit breaker for protecting four loads at 24 V DC in the event of overload and short circuit. With electronic locking of the set nominal currents. For installation on DIN rails.

Type 3 surge protection device

Type 3 surge protection device - PLT-SEC-T3-230-FM-UT - 2907919 https://www.phoenixcontact.com/in/products/2907919



Type 2/3 surge protection, consisting of protective plug and base element with screw connection. For single-phase power supply network with integrated status indicator and remote signaling. Nominal voltage: 230 V AC/DC



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Type 3 surge protection device

Type 3 surge protection device - PLT-SEC-T3-24-FM-UT - 2907916 https://www.phoenixcontact.com/in/products/2907916



Type 3 surge protection, consisting of protective plug and base element, with integrated status indicator and remote signaling for single-phase power supply networks. Nominal voltage: 24 V AC/DC

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PHOENIX CONTACT (I) Pvt. Ltd. A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420 info@phoenixcontact.co.in