

1088851

https://www.phoenixcontact.com/us/products/1088851

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Primary-switched UNO POWER power supply for DIN rail mounting, IEC 60335-1, input: 1-phase, output: 24 V DC / 100 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 ... +70 °C

Commercial data

Item number	1088851
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CM14
Product key	CMPU1Y
GTIN	4055626890661
Weight per piece (including packing)	381.4 g
Weight per piece (excluding packing)	340 g
Customs tariff number	85044095
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	< 40 A (typical)
Inrush current integral (I ² t)	< 1.5 A ² s
Frequency range (f _N)	50 Hz 60 Hz ±10 %
Mains buffering time	> 20 ms (120 V AC)
	> 100 ms (230 V AC)
Current consumption	2.1 A (100 V AC)
	0.95 A (240 V AC)
Nominal power consumption	242.6 VA
Protective circuit	Transient surge protection; Varistor
Power factor (cos phi)	0.47
Typical response time	<1s
Input fuse	4 A (slow-blow, internal)
Recommended breaker for input protection	6 A 16 A (Characteristics B, C, D, K)

Output data

typ. 88 % (120 V AC)
typ. 89 % (230 V AC)
HICCUP
24 V DC
4.2 A (-25 °C 55 °C)
55 °C 70 °C (2.5 %/K)
< 35 V DC
≤ 35 V DC
< 1 % (change in load, static 10 % 90 %)
< 2 % (Dynamic load change 10 % 90 %, 10 Hz)
< 0.1 % (change in input voltage ±10 %)
< 30 mV _{PP} (with nominal values)
yes
yes
100 W
< 0.5 W
< 11 W
< 0.5 s (U _{OUT} (10 % 90 %))
< 2 ms
yes



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Connection data

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Connection method	Screw connection
Conductor cross section, rigid min.	0.2 mm ²
Conductor cross section, rigid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
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, rigid min.	0.2 mm²
Conductor cross section, rigid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²
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	0.6 Nm
Tightening torque max	0.8 Nm

Signaling

Types of signaling	LED
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Electrical properties

Number of phases	1.00
Insulation voltage input/output	4 kV AC (type test)
	3 kV AC (routine test)

Product properties

Product type	Power supply
Product family	UNO POWER
MTBF (IEC 61709, SN 29500)	> 738000 h (40 °C)

Data management status

Article revision	01
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Insulation characteristics



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Protection class	II (in closed control cabinet)
Degree of pollution	2
Dimensions	
Width	55 mm
Height	90 mm
Depth	84 mm
Installation dimensions	
Installation distance right/left	0 mm / 0 mm
Installation distance top/bottom	30 mm / 30 mm
Mounting	
Mounting type	DIN rail mounting
Thread type	()
Assembly note	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

Environmental and real-life conditions

Ambient conditions

Housing material

Type of housing

Foot latch material

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
Ambient temperature (start-up type tested)	-40 °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.

Polycarbonate

Polycarbonate

POM (Polyoxymethylene)

Standards and regulations

Budgetary standard	IEC 60335-1
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



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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
lains voltage dips	
Standard designation	Requirement of the semiconductor industry with regard to main voltage dips
Standards/specifications	SEMI F47 - 0706 (180 V AC)
provals	
CSA	CAN/CSA-C22.2 No. 60950-1-07
	CSA-C22.2 No. 107.1-01
	CAN/CSA-C22.2 No. 213 Class I, Division 2, Groups A, B, C, D T4 (Hazardous Location)
UL approvals	UL/C-UL listed UL 508
	UL/C-UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups B, C, D T4 (Hazardous Location)
	UL/C-UL Recognized UL 60950-1
Conformity/Approvals	
SIL in accordance with IEC 61508	0
IC data	
Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
EMC requirements for noise emission	EN 61000-6-3
	EN 61000-6-4
EMC requirements for noise immunity	EN 61000-6-1
	EN 61000-6-2
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Electrostatic discharge	
Standards/regulations	EN 61000-4-2
Electrostatic discharge	
Contact discharge	6 kV (Test Level 3)
Discharge in air	8 kV (Test Level 3)
Comments	Criterion B
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)



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Test field strength	10 V/m (Test Level 3)
Comments	Criterion A
Fast transients (burst)	
Standards/regulations	EN 61000-4-4
Standardor Ogulations	2110100011
Fast transients (burst)	
Input	4 kV (Test Level 4 - asymmetrical)
Output	2 kV (Test Level 3 - asymmetrical)
Comments	Criterion A
Surge voltage load (surge)	
Standards/regulations	EN 61000-4-5
Surge voltage load (surge)	
Input	1 kV (Test Level 2 - symmetrical)
mput	2 kV (Test Level 3 - asymmetrical)
Output	0.5 kV (Test Level 1 - symmetrical)
Caipat	0.5 kV (Test Level 1 - asymmetrical)
Comments	Criterion B
Conducted interference	
Standards/regulations	EN 61000-4-6
Conducted interference	
Input/Output	asymmetrical
Frequency range	0.15 MHz 80 MHz
Comments	Criterion A
Voltage	10 V (Test Level 3)
Voltage dips	
Standards/regulations	EN 61000-4-11
	=111100 111
Emitted interference	
Standards/regulations	EN 61000-6-3
Radio interference voltage in acc. with EN 55011	EN 55011 (EN 55022) class B used in industry and residential area / EMC 1
Emitted radio interference in acc. with EN 55011	EN 55011 (EN 55022) class B used in industry and residential area / EMC 1
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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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1088851



IECEE CB Scheme

Approval ID: SI-7104



EAC

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



EAC

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



cULus Listed

Approval ID: FILE E 214596



cULus Listed

Approval ID: FILE E 123528



EAC

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



IECEE CB Scheme

Approval ID: DE/PTZ/0124



cULus Listed

Approval ID: FILE E 199827



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Classifications

ECLASS

	ECLASS-11.0	27040701		
	ECLASS-13.0	27040701		
	ECLASS-12.0	27040701		
ETIM				
	ETIM 9.0	EC002540		
UNSPSC				
	UNSPSC 21.0	39121000		



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes			
Exemption	6(c), 7(c)-I			
China RoHS				
Environment friendly use period (EFUP)	EFUP-25			
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.			
EU REACH SVHC				
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)			
SCIP	ee65de59-068d-4ddd-b9e7-3af0843f008a			
EF3.0 Climate Change				
CO2e kg	6.648 kg CO2e			



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Accessories

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

2905489

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



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

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

2906031

https://www.phoenixcontact.com/us/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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CBMC E4 24DC/1-10A NO - Electronic circuit breaker

2906032

https://www.phoenixcontact.com/us/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.

PLT-SEC-T3-230-FM-UT - Type 3 surge protection device

2907919

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

2907916

https://www.phoenixcontact.com/us/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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