

2904372

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Please use the following item in new systems: 1096432.

Primary-switched UNO power supply for DIN rail mounting, input: 1-phase, output: 24 V DC / 240 W

Product Description

UNO POWER power supplies - compact with basic functionality

Thanks to their high power density, compact UNO POWER power supplies offer 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	2904372
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CMP
Product Key	CMPU13
Catalog Page	Page 267 (C-4-2019)
GTIN	4046356897037
Weight per Piece (including packing)	888.2 g
Weight per Piece (excluding packing)	850 g
Customs tariff number	85044030
Country of origin	VN



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Technical Data

Input data

AC operation

7.6 operation	
Nominal input voltage range	100 V AC 240 V AC
Input voltage range	85 V AC 264 V AC (< 95 V AC Derating 1 %/V)
Derating	< 95 V AC (1 %/V)
Input voltage range AC	85 V AC 264 V AC
Voltage type of supply voltage	AC
Inrush current	< 80 A (typ.)
Inrush current integral (I ² t)	< 2 A ² s (typ.)
AC frequency range	50 Hz 60 Hz
Frequency range (f _N)	50 Hz 60 Hz ±10 %
Mains buffering time	> 10 ms (120 V AC)
	> 10 ms (230 V AC)
Current consumption	typ. 2.69 A (100 V AC)
	typ. 1.08 A (240 V AC)
Nominal power consumption	260 VA
Protective circuit	Transient surge protection; Varistor
Power factor (cos phi)	0.99
Typical response time	<1s
Input fuse	5 A (slow-blow, internal)
Recommended breaker for input protection	6 A 16 A (Characteristics B, C, D, K)

Output data

Efficiency	typ. 90 % (120 V AC)
	typ. 93 % (230 V AC)
Output characteristic	U/I
Nominal output voltage	24 V DC ±1 %
Setting range of the output voltage (U_{Set})	24 V DC 28 V DC ±1 %
Nominal output current (I _N)	10 A (-25 °C 55 °C)
Derating	55 °C 70 °C (2.5%/K)
Feedback voltage resistance	< 35 V DC
Protection against overvoltage at the output (OVP)	≤ 35 V DC
Control deviation	change in load, static 10 % 90 %
	< 2 % (change in load, dynamic 10 % 90 %)
	< 0.1 % (change in input voltage ±10 %)
Residual ripple	< 50 mV _{PP} (with nominal values)
Short-circuit-proof	yes
Output power	240 W
Maximum no-load power dissipation	< 1.1 W
Power loss nominal load max.	< 18.8 W
Rise time	< 0.5 s (U _{OUT} (10 % 90 %))



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Response time	< 2 ms
Connection in parallel	yes, for redundancy and increased capacity
Connection in series	No

Connection data

Input

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 mm²
Conductor cross section flexible max.	2.5 mm²
Single conductor/flexible terminal point with ferrule with plastic sleeve, min.	0.2 mm ²
Single conductor/flexible terminal point with ferrule with plastic sleeve, max.	2.5 mm²
Single conductor/flexible terminal point with ferrule without plastic sleeve, min.	0.2 mm²
Single conductor/flexible terminal point with ferrule without plastic sleeve, 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, rigid min.	0.2 mm²
Conductor cross section, rigid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm²
Single conductor/flexible terminal point with ferrule with plastic sleeve, min.	0.2 mm ²
Single conductor/flexible terminal point with ferrule with plastic sleeve, max.	2.5 mm ²
Single conductor/flexible terminal point with ferrule without plastic sleeve, min.	0.2 mm ²
Single conductor/flexible terminal point with ferrule without plastic sleeve, 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



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Signaling		
	Types of signaling	LED
Ele	ectrical properties	
	Number of phases	1.00
	Insulation voltage input/output	4 kV AC (type test)
		3 kV AC (routine test)
Pro	oduct properties	
	Product type	Power supply
	Product family	UNO POWER

Insulation characteristics

MTBF (IEC 61709, SN 29500)

Troute to Troute	
Protection class	I (in closed control cabinet)
Degree of pollution	2

> 641000 h (40 °C)

Dimensions

Width	45 mm
Height	130 mm
Depth	125 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
Assembly instructions	alignable: 0 mm horizontally, 30 mm vertically
Mounting position	horizontal DIN rail NS 35, EN 60715

Material specifications

Flammability rating according to UL 94 (housing / terminal blocks)	V0
Type of housing	Aluminum/polycarbonate
Housing material	Aluminum / 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
Ambient temperature (start-up type tested)	-25 °C
Climatic class	3K22 (in accordance with EN 60721-3-3)
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)



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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.
andards 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
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, E 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
ИС 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
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Electromagnetic HF field	
Frequency range	80 MHz 1 GHz
Test field strength	10 V/m (Test Level 3)
Frequency range	1 GHz 6 GHz
Test field strength	10 V/m (Test Level 3)
Comments	Criterion A
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 B
2 (1 (2)	
Surge voltage load (surge) Standards/regulations	EN 61000-4-5
Input	2 kV (Test Level 3 - symmetrical)
input	4 kV (Test Level 4 - asymmetrical)
Output	1 kV (Test Level 2 - symmetrical)
Catput	2 kV (Test Level 3 - asymmetrical)
Comments	Criterion B
Commonto	CHICKION D
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)
√oltage dips	
Standards/regulations	EN 61000-4-11
Voltage	230 V AC
Frequency	50 Hz
Voltage dip	70 %
Number of periods	25 periods
Additional text	Class 3
Comments	Criterion A
Voltage dip	40 %
Number of periods	10 periods
	Class 3
Additional text	Class 5
Additional text Comments	Criterion A



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Additional text	Class 3
Comments	Criterion B
Emitted interference	
Standards/regulations	EN 61000-6-3
Radio interference voltage in acc. with EN 55011	EN 55011 (EN 55022) Class B, area of application: Industry and residential
Emitted radio interference in acc. with EN 55011	EN 55011 (EN 55022) Class B, area of application: Industry and residential
Criteria	
Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

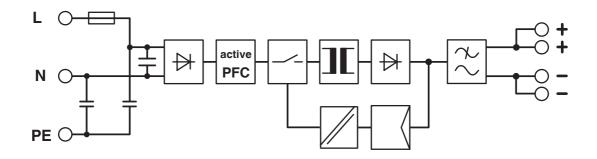


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Drawings

Block diagram





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Approvals



cUL RecognizedApproval ID: FILE E 214596



UL Recognized



IECEE CB Scheme

Approval ID: FILE E 214596

Approval ID: DK-42444-UL



EAC

Approval ID: EAC-Zulassung



UL Listed

Approval ID: FILE E 123528



cUL Listed

Approval ID: FILE E 123528



EAC

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



cUL Listed

Approval ID: FILE E 199827



UL Listed

Approval ID: FILE E 199827



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Classifications

ECLASS

	ECLASS-11.0	27040701
	ECLASS-12.0	27040701
ETIM		
	ETIM 8.0	EC002540
UNSPSC		
	UNSPSC 21.0	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

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

2905489

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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

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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

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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/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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PLT-SEC-T3-24-FM-UT - Type 3 surge protection device

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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