

2904375

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Primary-switched UNO POWER power supply for DIN rail mounting, input: 1-phase, output: 5 V DC/40 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	2904375
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CMP
Product Key	CMPU11
Catalog Page	Page 271 (C-4-2019)
GTIN	4046356897105
Weight per Piece (including packing)	249.5 g
Weight per Piece (excluding packing)	210 g
Customs tariff number	85044083
Country of origin	VN



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Technical Data

Input data

AC operation

Nominal input voltage range 100 ∨ AC 240 ∨ AC Input voltage range 85 ∨ AC 264 ∨ AC Input voltage range AC 85 ∨ AC 264 ∨ AC Voltage type of supply voltage AC Inrush current < 30 A (typ.) Inrush current integral (I²t) < 0.5 A²s (typ.) Frequency range (f _N) 50 Hz 60 Hz ±10 % Mains buffering time > 30 ms (120 ∨ AC) Vyp. 0.8 A (100 ∨ AC) 120 ms (230 ∨ AC) Current consumption typ. 0.8 A (100 ∨ AC) Nominal power consumption 97.1 ∨A Protective circuit Transient surge protection; Varistor Power factor (cos phi) 0.49 Typical response time < 1 s 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)	AC operation	
Input voltage range AC Voltage type of supply voltage AC Inrush current	Nominal input voltage range	100 V AC 240 V AC
Voltage type of supply voltage AC Inrush current Inrush current integral (I^2 t) < 0.5 A^2 s (typ.) Frequency range (f_N)	Input voltage range	85 V AC 264 V AC
$\begin{array}{llllllllllllllllllllllllllllllllllll$	Input voltage range AC	85 V AC 264 V AC
	Voltage type of supply voltage	AC
Frequency range (f _N) 50 Hz 60 Hz ±10 % Mains buffering time > 30 ms (120 V AC) > 120 ms (230 V AC) typ. 0.8 A (100 V AC) typ. 0.4 A (240 V AC) typ. 0.4 A (240 V AC) Nominal power consumption 97.1 VA Protective circuit Transient surge protection; Varistor Power factor (cos phi) 0.49 Typical response time < 1 s	Inrush current	< 30 A (typ.)
Mains buffering time > 30 ms (120 V AC) > 120 ms (230 V AC) typ. 0.8 A (100 V AC) typ. 0.4 A (240 V AC) Nominal power consumption 97.1 VA Protective circuit Transient surge protection; Varistor Power factor (cos phi) Typical response time < 1 s Input fuse 2 A (slow-blow, internal) Permissible backup fuse 86 B10 B16	Inrush current integral (I ² t)	< 0.5 A ² s (typ.)
> 120 ms (230 V AC) Current consumption typ. 0.8 A (100 V AC) typ. 0.4 A (240 V AC) Nominal power consumption 97.1 VA Protective circuit Transient surge protection; Varistor Power factor (cos phi) 0.49 Typical response time < 1 s Input fuse 2 A (slow-blow, internal) Permissible backup fuse B6 B10 B16	Frequency range (f _N)	50 Hz 60 Hz ±10 %
Current consumption typ. 0.8 A (100 V AC) typ. 0.4 A (240 V AC) Nominal power consumption 97.1 VA Protective circuit Transient surge protection; Varistor Power factor (cos phi) 0.49 Typical response time < 1 s Input fuse 2 A (slow-blow, internal) Permissible backup fuse B6 B10 B16	Mains buffering time	> 30 ms (120 V AC)
typ. 0.4 A (240 V AC) Nominal power consumption 97.1 VA Protective circuit Transient surge protection; Varistor Power factor (cos phi) 0.49 Typical response time < 1 s Input fuse 2 A (slow-blow, internal) Permissible backup fuse B6 B10 B16		> 120 ms (230 V AC)
Nominal power consumption 97.1 VA Protective circuit Transient surge protection; Varistor Power factor (cos phi) 0.49 Typical response time < 1 s Input fuse 2 A (slow-blow, internal) Permissible backup fuse B6 B10 B16	Current consumption	typ. 0.8 A (100 V AC)
Protective circuit Power factor (cos phi) Typical response time Input fuse Permissible backup fuse Transient surge protection; Varistor 0.49 < 1 s 2 A (slow-blow, internal) B6 B10 B16		typ. 0.4 A (240 V AC)
Power factor (cos phi) Typical response time < 1 s Input fuse 2 A (slow-blow, internal) Permissible backup fuse B6 B10 B16	Nominal power consumption	97.1 VA
Typical response time < 1 s Input fuse 2 A (slow-blow, internal) Permissible backup fuse B6 B10 B16	Protective circuit	Transient surge protection; Varistor
Input fuse 2 A (slow-blow, internal) Permissible backup fuse B6 B10 B16	Power factor (cos phi)	0.49
Permissible backup fuse B6 B10 B16	Typical response time	<1s
	Input fuse	2 A (slow-blow, internal)
Recommended breaker for input protection 6 A 16 A (Characteristics B, C, D, K)	Permissible backup fuse	B6 B10 B16
	Recommended breaker for input protection	6 A 16 A (Characteristics B, C, D, K)

Output data

Efficiency	typ. 84 % (120 V AC)
	typ. 85 % (230 V AC)
Output characteristic	HICCUP
Nominal output voltage	5 V DC ±1 %
Nominal output current (I _N)	8 A (-25 °C 55 °C)
Derating	55 °C 70 °C (2.5%/K)
Feedback voltage resistance	< 10 V DC
Protection against overvoltage at the output (OVP)	≤ 10 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	< 100 mV _{PP} (with nominal values)
Short-circuit-proof	yes
Output power	40 W
Maximum no-load power dissipation	< 0.3 W
Power loss nominal load max.	< 7.5 W
Rise time	< 0.5 s (U _{OUT} (10 % 90 %))
Response time	< 2 ms
Connection in parallel	yes, for redundancy and increased capacity



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Connection in acutes	
Connection in series	yes
nnection data	
nput	
Connection method	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
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 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 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 solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
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 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

0.6 Nm

LED signaling

Tightening torque max



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ctrical properties	
Number of phases	1.00
Insulation voltage input/output	4 kV AC (type test)
	3 kV AC (routine test)
duct properties	
Product type	Power supply
· ·	UNO POWER
MTBF (IEC 61709, SN 29500)	> 1201000 h (40 °C)
nsulation characteristics	
Protection class	II (in closed control cabinet)
Degree of pollution	2
nensions	
Width	35 mm
Height	90 mm
Depth	84 mm
Installation dimensions Installation distance right/left	0 mm / 0 mm
Installation distance rightneric	30 mm / 30 mm
installation distance top/pottoni	30 Hill / 30 Hill
unting	
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
terial specifications	
Flammability rating according to UL 94 (housing / terminal blocks)	V0
Housing material	Plastic
Foot latch material	POM (Polyoxymethylene)



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Shock	18 ms, 30g, in each space direction (according to IEC 60068-2-
Chica	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
proval data	
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 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 B, C, D T4A (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
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
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
Noise immunity	EN 61000-6-2
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
Surge voltage load (surge)	
Standards/regulations	EN 61000-4-5
Input	2 kV (Test Level 3 - symmetrical)
·	4 kV (Test Level 4 - asymmetrical)
Output	1 kV (Test Level 2 - symmetrical)
·	2 kV (Test Level 3 - asymmetrical)
Comments	Criterion B
Conducted interference Standards/regulations	EN 61000-4-6
Ctantean con Oganament	
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
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
Additional text	Class 3
Comments	Criterion B
Voltage dip	0 %
0 1	5 75



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Additional text	Class 3
Comments	Criterion A
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.

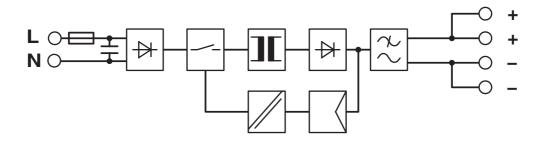


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Drawings

Block diagram





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Approvals



cUL Recognized

Approval ID: FILE E 214596



UL Recognized

Approval ID: FILE E 214596



IECEE CB Scheme

Approval ID: DK-35014-UL



EAC

Approval ID: EAC-Zulassung



EAC

Approval ID: EAC-Zulassung



UL Listed

Approval ID: FILE E 123528



cUL Listed

Approval ID: FILE E 123528



UL Recognized

Approval ID: FILE E 214596



IECEE CB Scheme

Approval ID: DK-35014-UL



cUL Recognized

Approval ID: FILE E 214596



cUL Listed

Approval ID: FILE E 123528



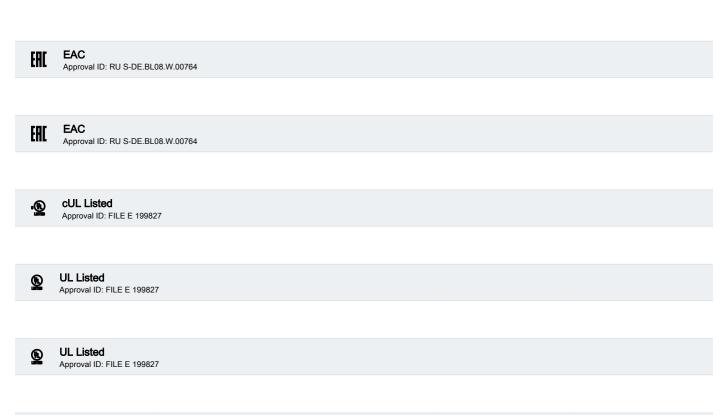
UL Listed

Approval ID: FILE E 123528



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cUL Listed
Approval ID: FILE E 199827



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Classifications

UNSPSC 21.0

ECLASS

7701
701
701
2540

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.



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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