

https://www.phoenixcontact.com/us/products/2904374

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Primary-switched UNO POWER power supply for DIN rail mounting, input: 1-phase, output: 5 V DC/25 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	2904374
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CM14
Product key	CMPU11
Catalog page	Page 271 (C-4-2019)
GTIN	4046356897082
Weight per piece (including packing)	189.7 g
Weight per piece (excluding packing)	150 g
Customs tariff number	85044095
Country of origin	VN

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### Technical data

### Input data

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 (typ.)
Inrush current integral (I <sup>2</sup> t)	< 0.5 A <sup>2</sup> s (typ.)
Frequency range (f <sub>N</sub> )	50 Hz 60 Hz ±10 %
Mains buffering time	> 35 ms (120 V AC)
	> 135 ms (230 V AC)
Current consumption	typ. 0.53 A (100 V AC)
	typ. 0.28 A (240 V AC)
Nominal power consumption	61.7 VA
Protective circuit	Transient surge protection; Varistor
Power factor (cos phi)	0.47
Typical response time	< 1 s
Input fuse	2 A (slow-blow, internal)
Recommended breaker for input protection	6 A 16 A (Characteristics B, C, D, K)

### Output data

Efficiency	typ. 85 % (120 V AC)
	typ. 86 % (230 V AC)
Output characteristic	HICCUP
Nominal output voltage	5 V DC
Nominal output current (I <sub>N</sub> )	5 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	< 40 mV <sub>PP</sub> (with nominal values)
Short-circuit-proof	yes
Output power	25 W
Maximum no-load power dissipation	< 0.3 W
Power loss nominal load max.	< 4.5 W
Rise time	< 0.5 s (U <sub>OUT</sub> (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

Input	
Connection method	Screw connection
Conductor cross section, rigid min.	0.2 mm <sup>2</sup>
Conductor cross section, rigid max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule with plastic sleeve, min.	0.2 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule with plastic sleeve, max.	2.5 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule without plastic sleeve, min.	0.2 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule without plastic sleeve, max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Stripping length	8 mm
Screw thread	М3
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

#### Output

Connection method	Screw connection
Conductor cross section, rigid min.	0.2 mm <sup>2</sup>
Conductor cross section, rigid max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule with plastic sleeve, min.	0.2 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule with plastic sleeve, max.	2.5 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule without plastic sleeve, min.	0.2 mm <sup>2</sup>
Single conductor/flexible terminal point with ferrule without plastic sleeve, max.	2.5 mm <sup>2</sup>
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

### 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)
duct properties	
Product type	Power supply
Product family	UNO POWER
MTBF (IEC 61709, SN 29500)	> 2174000 h (40 °C)
nsulation characteristics	
Protection class	II (in closed control cabinet)
Degree of pollution	2
nensions	
Width	22.5 mm
Height	90 mm
Depth	84 mm
nstallation dimensions	
Installation distance right/left	0 mm / 0 mm
Installation distance top/bottom	30 mm / 30 mm
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
Housing material	Polycarbonate
Foot latch material	POM (Polyoxymethylene)

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	3K22 (in accordance with EN 60721-3-3)
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)

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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

### Approvals

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
	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)
	UL/C-UL Recognized UL 60950-1

SIL in accordance with IEC 61508	0
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### EMC 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
lectrostatic discharge	
Standards/regulations	EN 61000-4-2
Standards/regulations	EN 61000-4-2
	EN 61000-4-2 6 kV (Test Level 3)
lectrostatic discharge	
lectrostatic discharge Contact discharge	6 kV (Test Level 3)
lectrostatic discharge Contact discharge Discharge in air	6 kV (Test Level 3) 8 kV (Test Level 3)

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<b>F</b>	
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
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Surge voltage load (surge)	
Input	1 kV (Test Level 2 - symmetrical)
	2 kV (Test Level 3 - asymmetrical)
Output	0.5 kV (Test Level 1 - symmetrical)
	1 kV (Test Level 2 - asymmetrical)
Comments	Criterion B
Conducted interference	
Standards/regulations	EN 61000-4-6
Conducted interference	
Input/Output	asymmetrical
	asymmetrical 0.15 MHz 80 MHz
Input/Output	
Input/Output Frequency range	0.15 MHz 80 MHz
Input/Output Frequency range Comments Voltage	0.15 MHz 80 MHz Criterion A
Input/Output Frequency range Comments Voltage	0.15 MHz 80 MHz Criterion A
Input/Output Frequency range Comments Voltage	0.15 MHz 80 MHz         Criterion A         10 V (Test Level 3)
Input/Output Frequency range Comments Voltage Voltage dips Standards/regulations	0.15 MHz 80 MHz         Criterion A         10 V (Test Level 3)         EN 61000-4-11
Input/Output Frequency range Comments Voltage Voltage dips Standards/regulations Voltage	0.15 MHz 80 MHz         Criterion A         10 V (Test Level 3)         EN 61000-4-11         230 V AC
Input/Output         Frequency range         Comments         Voltage         Voltage dips         Standards/regulations         Voltage         Frequency	0.15 MHz 80 MHz         Criterion A         10 V (Test Level 3)         EN 61000-4-11         230 V AC         50 Hz
Input/Output         Frequency range         Comments         Voltage         Standards/regulations         Voltage         Frequency         Voltage         Voltage         Voltage         Voltage         Voltage         Voltage         Voltage	0.15 MHz 80 MHz         Criterion A         10 V (Test Level 3)         EN 61000-4-11         230 V AC         50 Hz         70 %
Input/Output Frequency range Comments Voltage Voltage dips Standards/regulations Voltage Frequency Voltage dip Number of periods	0.15 MHz 80 MHz         Criterion A         10 V (Test Level 3)         EN 61000-4-11         230 V AC         50 Hz         70 %         25 periods
Input/Output         Frequency range         Comments         Voltage         Standards/regulations         Voltage         Frequency         Voltage dips         Standards/regulations         Voltage         Input/Output         Voltage         Voltage dip         Number of periods         Additional text	0.15 MHz 80 MHz         Criterion A         10 V (Test Level 3)         EN 61000-4-11         230 V AC         50 Hz         70 %         25 periods         Class 3
Input/Output Frequency range Comments Voltage Voltage dips Standards/regulations Voltage Frequency Voltage dip Number of periods Additional text Comments	0.15 MHz 80 MHzCriterion A10 V (Test Level 3)EN 61000-4-11230 V AC50 Hz70 %25 periodsClass 3Criterion A
Input/Output         Frequency range         Comments         Voltage         Standards/regulations         Voltage         Frequency         Voltage dips         Standards/regulations         Voltage         Input/Output         Voltage         Voltage dip         Additional text         Comments         Voltage dip	0.15 MHz 80 MHz         Criterion A         10 V (Test Level 3)         EN 61000-4-11         230 V AC         50 Hz         70 %         25 periods         Class 3         Criterion A         40 %
Input/Output         Frequency range         Comments         Voltage         Voltage dips         Standards/regulations         Voltage         Frequency         Voltage dip         Number of periods         Additional text         Comments         Voltage dip         Number of periods         Number of periods	0.15 MHz 80 MHz         Criterion A         10 V (Test Level 3)         EN 61000-4-11         230 V AC         50 Hz         70 %         25 periods         Class 3         Criterion A         40 %         10 periods
Input/Output         Frequency range         Comments         Voltage         Standards/regulations         Voltage         Frequency         Voltage dips         Standards/regulations         Voltage         Prequency         Additional text         Comments         Voltage dip         Number of periods         Additional text         Comments         Voltage dip         Number of periods         Additional text	0.15 MHz 80 MHz         Criterion A         10 V (Test Level 3)         EN 61000-4-11         230 V AC         50 Hz         70 %         25 periods         Class 3         Criterion A         40 %         10 periods         Class 3



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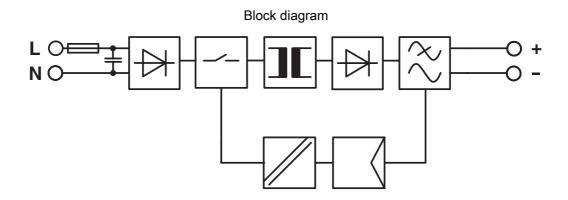
Additional text	Class 3
Comments	Criterion A
Emitted interference	
Standards/regulations	EN 61000-6-3
Radio interference voltage in acc. with EN 55011	EN 55011 (EN 55022) Class B, area of application: Industry and residential
Emitted radio interference in acc. with EN 55011	EN 55011 (EN 55022) Class 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





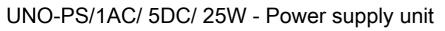
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### Approvals

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<b>.</b>	cUL Recognized Approval ID: FILE E 214596		
<b>%</b>	UL Recognized Approval ID: FILE E 214596		
	ECEE CB Scheme     Approval ID: DK-30305-A3-M1-UL		
ERC	EAC Approval ID: EAC-Zulassung		
EAC	EAC Approval ID: RU S-DE.BL08.W.00764		
EAC	EAC Approval ID: RU S-DE.BL08.W.00764		
. <b>@</b> .	CULus Listed Approval ID: FILE E 123528		
	ECEE CB Scheme     Approval ID: DE/PTZ/0119/A1		
<b>.</b>	CUL Listed Approval ID: FILE E 199827		
	UL Listed Approval ID: FILE E 199827		
cU	ULus Recognized		



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### Classifications

### ECLASS

ECLASS-11.0 27	27040701
ECLASS-13.0 27	27040701
ECLASS-12.0 27	27040701

### ETIM

	ETIM 9.0	EC002540
UN	NSPSC	
	UNSPSC 21.0	39121000



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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(c)-l
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	3b1fada9-ed33-4dfe-9624-e50c659aa0df
EF3.0 Climate Change	
CO2e kg	4.319 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.



### 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

#### 2904374

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### **PHŒNIX** CONTACT

### 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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