UNO-PS/1AC/24DC/ 60W - Power supply unit



2902992

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Primary-switched UNO POWER power supply for DIN rail mounting, input: 1-phase, output: 24 V DC/60 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	2902992
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CMP
Product Key	CMPU13
Catalog Page	Page 266 (C-4-2019)
GTIN	4046356729208
Weight per Piece (including packing)	242 g
Weight per Piece (excluding packing)	207 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.) AC frequency range 50 Hz 60 Hz Frequency range (f _N) 50 Hz 60 Hz ±10 % Mains buffering time > 20 ms (120 ∨ AC) Vp. 1.3 A (100 ∨ AC) yp. 0.6 A (240 ∨ AC) Nominal power consumption 135.5 ∨A Protective circuit Transient surge protection; Varistor Power factor (cos phi) 0.49 Typical response time < 1 s Input fuse 2.5 A (slow-blow, internal) 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 Inrush current integral (I²t) AC frequency range Frequency range (f _N) Mains buffering time Turent consumption Current consumption Protective circuit Typical response time 85 V AC 264 V AC AC 85 V AC 264 V AC AC 85 V AC 264 V AC 400 V AC 50 Hz 60 Hz 50 Hz 60 Hz ±10 % 70 Hz	Nominal input voltage range	100 V AC 240 V AC
Voltage type of supply voltage AC Inrush current $< 30 \text{ A (typ.)}$ Inrush current integral (I^2 t) $< 0.5 \text{ A}^2 \text{ s (typ.)}$ AC frequency range $= 50 \text{ Hz} \dots 60 \text{ Hz}$ Frequency range (f_N) $= 50 \text{ Hz} \dots 60 \text{ Hz} + 10 \%$ Mains buffering time $= 20 \text{ ms (} 120 \text{ V AC)}$ $= 85 \text{ ms (} 230 \text{ V AC)}$ Current consumption $= 135.5 \text{ VA}$ Protective circuit $= 135.5 \text{ VA}$ Protective circuit $= 135.5 \text{ VA}$ Transient surge protection; Varistor Power factor (cos phi) $= 0.49$ Typical response time $= 135.5 \text{ Va}$ Input fuse $= 2.5 \text{ A (slow-blow, internal)}$	Input voltage range	85 V AC 264 V AC
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Input voltage range AC	85 V AC 264 V AC
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Voltage type of supply voltage	AC
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Inrush current	< 30 A (typ.)
Frequency range (f_N) Mains buffering time > 20 ms (120 V AC) > 85 ms (230 V AC) Current consumption typ. 1.3 A (100 V AC) typ. 0.6 A (240 V AC) Nominal power consumption 135.5 VA Protective circuit Transient surge protection; Varistor Power factor (cos phi) Typical response time < 1 s Input fuse 2.5 A (slow-blow, internal)	Inrush current integral (I ² t)	< 0.5 A ² s (typ.)
Mains buffering time > 20 ms (120 V AC) > 85 ms (230 V AC) Current consumption typ. 1.3 A (100 V AC) typ. 0.6 A (240 V AC) Nominal power consumption 135.5 VA Protective circuit Transient surge protection; Varistor Power factor (cos phi) 0.49 Typical response time < 1 s Input fuse 2.5 A (slow-blow, internal)	AC frequency range	50 Hz 60 Hz
> 85 ms (230 V AC) Current consumption typ. 1.3 A (100 V AC) typ. 0.6 A (240 V AC) Nominal power consumption 135.5 VA Protective circuit Transient surge protection; Varistor Power factor (cos phi) 0.49 Typical response time < 1 s Input fuse 2.5 A (slow-blow, internal)	Frequency range (f _N)	50 Hz 60 Hz ±10 %
Current consumption typ. 1.3 A (100 V AC) typ. 0.6 A (240 V AC) Nominal power consumption 135.5 VA Protective circuit Transient surge protection; Varistor Power factor (cos phi) 0.49 Typical response time < 1 s Input fuse 2.5 A (slow-blow, internal)	Mains buffering time	> 20 ms (120 V AC)
typ. 0.6 A (240 V AC) Nominal power consumption 135.5 VA Protective circuit Transient surge protection; Varistor Power factor (cos phi) Typical response time < 1 s Input fuse 2.5 A (slow-blow, internal)		> 85 ms (230 V AC)
Nominal power consumption 135.5 VA Protective circuit Power factor (cos phi) Typical response time 135.5 VA Transient surge protection; Varistor 0.49 1 s Input fuse 2.5 A (slow-blow, internal)	Current consumption	typ. 1.3 A (100 V AC)
Protective circuit Transient surge protection; Varistor Power factor (cos phi) 0.49 Typical response time < 1 s Input fuse 2.5 A (slow-blow, internal)		typ. 0.6 A (240 V AC)
Power factor (cos phi) Typical response time 1 s Input fuse 2.5 A (slow-blow, internal)	Nominal power consumption	135.5 VA
Typical response time < 1 s Input fuse 2.5 A (slow-blow, internal)	Protective circuit	Transient surge protection; Varistor
Input fuse 2.5 A (slow-blow, internal)	Power factor (cos phi)	0.49
	Typical response time	<1s
Recommended breaker for input protection 6 A 16 A (Characteristics B, C, D, K)	Input fuse	2.5 A (slow-blow, internal)
	Recommended breaker for input protection	6 A 16 A (Characteristics B, C, D, K)

Output data

Efficiency	typ. 88 % (120 V AC)
	typ. 90 % (230 V AC)
Output characteristic	HICCUP
Nominal output voltage	24 V DC ±1 %
Nominal output current (I _N)	2.5 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	< 1 % (change in load, static 10 % 90 %)
	< 2 % (Dynamic load change 10 % 90 %, 10 Hz)
	< 0.1 % (change in input voltage ±10 %)
Residual ripple	< 30 mV _{PP} (with nominal values)
Short-circuit-proof	yes
Output power	60 W
Maximum no-load power dissipation	< 0.3 W
Power loss nominal load max.	< 7 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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Single conductor/flexible terminal point with ferrule without plastic



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Connection in series	yes
onnection data	
on data	
Input	
Connection method	Screw connection
Conductor cross section, rigid min.	0.2 mm ²
Conductor cross section, rigid 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
Tightening torque max	0.6 Nm
Output	
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 mm²
Single conductor/flexible terminal point with ferrule with plastic sleeve, min.	0.2 mm²
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

2.5 mm²

24

14

МЗ

8 mm

0.6 Nm

0.8 Nm

Signaling

sleeve, max.

Stripping length

Tightening torque, min

Tightening torque max

Screw thread

Conductor cross section AWG min.

Conductor cross section AWG max.