

UNO2-PS/1AC/24DC/480W - Power supply unit



2910105

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Primary-switched power supply unit, UNO POWER, Screw connection, DIN rail mounting, input: 1-phase, output: 24 V DC / 20 A, adjustable from 24 V DC ... 28 V DC

Your advantages

- Save space in the control cabinet, thanks to an extremely narrow overall width of just 59 mm
- Save energy, thanks to a high degree of efficiency
- Outdoor installation possible, with a wide temperature range of -25°C ... +70°C
- Simple output voltage monitoring, thanks to the floating DC OK relay contact

Commercial data

Item number	2910105
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CMP
Product key	CMPV13
Catalog page	Page 268 (C-4-2019)
GTIN	4055626456652
Weight per piece (including packing)	1,252.4 g
Weight per piece (excluding packing)	1,084 g
Customs tariff number	85044095
Country of origin	TH

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Technical data

Input data

AC operation

Supply system configuration	Star network (TN, TT, IT (PE))
Nominal input voltage range	100 V AC ... 240 V AC
Input voltage range	100 V AC ... 240 V AC -15 % ... +10 %
Derating	< 90 V AC (1 %/V)
Typical national grid voltage	120 V AC 230 V AC
Voltage type of supply voltage	AC
Inrush current	typ. 15 A (at 25 °C)
Inrush current integral (I^2t)	< 1 A ² s
Frequency range (f_N)	50 Hz ... 60 Hz $\pm$ 10 %
Mains buffering time	typ. 17 ms (120 V AC) typ. 18 ms (230 V AC)
Current consumption	5.4 A (100 V AC) 4.4 A (120 V AC) 2.3 A (230 V AC) 2.2 A (240 V AC)
Protective circuit	Transient surge protection; Varistor, gas-filled surge arrester
Switch-on time	typ. 1 s
Device mains fuse	8 A internal (device protection), fast-blow
Recommended breaker for input protection	10 A ... 16 A (Characteristic B, C, D, K or comparable)
Discharge current to PE	< 3.5 mA

Output data

Efficiency	typ. 93 % (120 V AC) typ. 94.6 % (230 V AC)
Nominal output voltage	24 V DC
Setting range of the output voltage (U_{Set})	24 V DC ... 28 V DC (> 24 V DC, constant capacity restricted)
Nominal output current (I_N)	20 A
Short-circuit-proof	yes
No-load proof	yes
Derating	55 °C ... 70 °C
Crest factor	typ. 1.667 (120 V AC) typ. 1.75 (230 V AC)
Output power (P_N)	480 W
Connection in parallel	yes, for redundancy
Connection in series	yes, for increased output voltage
Feedback voltage resistance	$\leq$ 35 V DC
Protection against overvoltage at the output (OVP)	$\leq$ 35 V DC
Residual ripple	typ. 70 mV _{pp} (with nominal values)

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Control deviation	< 1 % (change in load, static 10 % ... 90 %)
	< 3 % (change in load, dynamic 10 % ... 90 %)
	< 0.1 % (change in input voltage ± 10 %)
Rise time	< 1 s ($U_{\text{Out}} = 10$ % ... 90 %)
Minimum no-load power dissipation	< 2.9 W (120 V AC)
Maximum no-load power dissipation	< 3 W (230 V AC)
Minimum nominal load power dissipation	< 37 W (120 V AC)
Power loss nominal load max.	< 28 W (230 V AC)

Signal relay 13/14

Connection level	3.x
Connection labeling	3.1 (13), 3.2 (14)
Switch contact (floating)	OptoMOS
Switching voltage	max. 30 V AC/DC
	max. 60 V DC
Current carrying capacity	max. 50 mA
State condition	$U_{\text{OUT}} > 0,9 \times U_{\text{N}}$ (Contact closed)
	$U_{\text{OUT}} < 0,9 \times U_{\text{N}}$ (Contact open)

Connection data

Input

Position	1.x
Identification	1.1 (                                      ), 1.3 (N)

Conductor connection

Connection method	Screw connection
rigid	0.2 mm ² ... 6 mm ²
flexible	0.2 mm ² ... 4 mm ²
flexible with ferrule without plastic sleeve	0.25 mm ² ... 4 mm ²
flexible with ferrule with plastic sleeve	0.25 mm ² ... 4 mm ²
rigid (AWG)	24 ... 10 (Cu)
Stripping length	8 mm
Tightening torque	0.5 Nm ... 0.6 Nm
	4 lb _F -in. ... 5 lb _F -in.
Drive form screw head	Slotted L

Output

Position	2.x
Identification	2.1, 2.2 (+), 2.3, 2.4 (-)

Conductor connection

Connection method	Screw connection
rigid	0.2 mm ² ... 6 mm ²
flexible	0.2 mm ² ... 4 mm ²
flexible with ferrule without plastic sleeve	0.25 mm ² ... 4 mm ²