

UNO2-PS/1AC/12DC/120W/SC - Power supply



1399940

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Primary-switched power supply unit, UNO POWER, Screw connection, DIN rail mounting, input: 1-phase, output: 12 V DC / 10 A, adjustable from 12 V DC ... 15 V DC

Your advantages

- Save space in the control cabinet with an extremely narrow overall width of just 35 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	1399940
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CMPV12
GTIN	4063151785246
Weight per piece (including packing)	503 g
Weight per piece (excluding packing)	369 g
Country of origin	VN

Technical data

Input data

AC operation

Supply system configuration	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 %
Typical national grid voltage	120 V AC
	230 V AC
Voltage type of supply voltage	AC
Inrush current	typ. 35 A (at 25 °C)
Inrush current integral (I^2t)	< 0.3 A ² s
Frequency range (f_N)	50 Hz ... 60 Hz ±10 %
Mains buffering time	typ. 25 ms (120 V AC)
	typ. 27 ms (230 V AC)
Current consumption	1.32 A (100 V AC)
	1.1 A (120 V AC)
	0.58 A (230 V AC)
	0.56 A (240 V AC)
Protective circuit	Transient surge protection; Varistor
Switch-on time	typ. 1 s
Device mains fuse	3.15 A internal (device protection), slow-blow
Recommended breaker for input protection	6 A ... 16 A (Characteristic B, C, D, K or comparable)
Discharge current to PE	< 0.25 mA
Voltage type of supply voltage	DC

Output data

Efficiency	typ. 93.1 % (120 V AC)
	typ. 94.4 % (230 V AC)
Nominal output voltage	12 V DC
Setting range of the output voltage (U_{Set})	12 V DC ... 15 V DC (> 12 V DC, constant capacity restricted)
Nominal output current (I_N)	10 A
Short-circuit-proof	yes
Crest factor	typ. 1.68 (120 V AC)
	typ. 1.83 (230 V AC)
Output power (P_N)	120 W
Connection in parallel	yes, for increasing power and redundancy with diode
Connection in series	yes, for increased output voltage
Feedback voltage resistance	≤ 25 V DC
Protection against overvoltage at the output (OVP)	≤ 25 V DC
Residual ripple	typ. 25 mV _{pp} (with nominal values)
Control deviation	< 1 % (change in load, static 10 % ... 90 %)
	< 3 % (change in load, dynamic 10 % ... 90 %)

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	< 0.1 % (change in input voltage ± 10 %)
Rise time	< 1 s ($U_{Out} = 10$ % ... 90 %)
Minimum no-load power dissipation	< 0.55 W (120 V AC)
Maximum no-load power dissipation	< 0.4 W (230 V AC)
Minimum nominal load power dissipation	< 9 W (120 V AC)
Power loss nominal load max.	< 7 W (230 V AC)

Connection data

Input

Position	1.x
Identification	1.1 (L), 1.2 (N)

Conductor connection

Connection method	Screw connection
rigid	0.2 mm ² ... 2.5 mm ²
flexible	0.2 mm ² ... 2.5 mm ²
flexible with ferrule without plastic sleeve	0.25 mm ² ... 2.5 mm ²
flexible with ferrule with plastic sleeve	0.25 mm ² ... 2.5 mm ²
rigid (AWG)	24 ... 14 (Cu)
AWG	24 ... 14 (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 (-)

Conductor connection

Connection method	Screw connection
rigid	0.2 mm ² ... 2.5 mm ²
flexible	0.2 mm ² ... 2.5 mm ²
flexible with ferrule without plastic sleeve	0.25 mm ² ... 2.5 mm ²
flexible with ferrule with plastic sleeve	0.25 mm ² ... 2.5 mm ²
rigid (AWG)	24 ... 14 (Cu)
AWG	24 ... 14 (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

Signal

Position	3.x
Identification	3.1 (13), 3.2 (14)