Single-phase, primary switched mode power supply

PM-0124-040-0



Picture shows PM-0124-040-0

Advantages

- Stabilized and adjustable output voltage
- Low stand-by consumption <1 W
- Constant current limiting without overload shutdown
- DC OK indicator
- Push-in terminals
- Robust DIN rail mounting
- In compliance with EN 60335-1
- 3 years warranty

Applications

Efficient, primary switched mode power supply in slim plastic enclosure. A powerful and flexible option that's still light and compact. Our real all-rounders, these power supply units are suitable for a highly diverse range of applications in solar, measurement and control technology as well as industrial and building automation. The devices cover the lower and average power requirements from 25 W to 100 W. Versions with 12 V, 24 V, 30.5 V and 48 V are available, enabling a whole range of applications. A version with 3.8 A rated current is available for establishing NEC Class 2 circuits. All power supplies also comply with the EN 60335-1 standard for domestic appliances. The output voltage can be easily set using the rotary potentiometer on the front of the enclosure. The DIN rail fastening method and push-in connection terminals enable fast and secure mounting.

Versions for construction for medical applications according to UL 60601 are available.

Standards

Primary switched mode power supply
to UL 60950, UL 508

Safety:
EN 61558-2-16, EN 60950-1, EN 60335-1

EMC:
EN 61204-3

Approvals

UL/CSA 60950 recognised, UL 508 listed, GL

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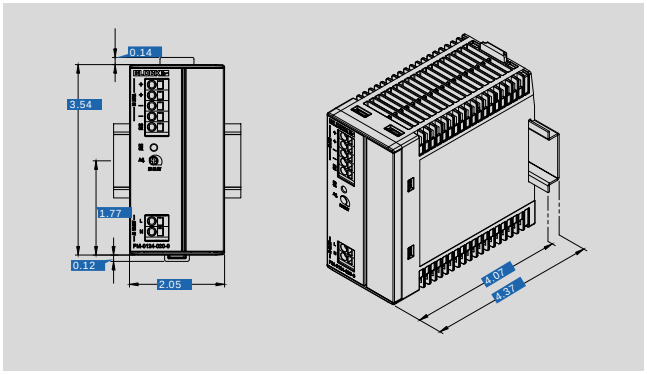
Electrical data

Type	PM-0124-040-0
Special features	
Characteristics	-
Input	
Input rated voltage	100 - 240 Vac
Input voltage range	85 - 264 Vac (120 - 372 Vdc)
Input voltage derating	-2,5 %/Vac < 95 Vac
Rated frequency range	44 Hz - 66 Hz / 0 Hz
Input rated current (rated load)	1.52 A (100 Vac) / 0.66 A (240 Vac)
Starting current limiter	< 30 A, NTC
Switch-on time	0.24 s (100 Vac) / 0.14 s (230 Vac)
Power factor	0.5
Input fuse internal	4 A
Recommended back-up fuse (circuit breaker)	6 A, 10 A, 16 A, characteristic B, C
Mains buffering (rated load)	15 ms (100 Vac) / 80 ms (230 Vac)
Transient surge voltage protection	varistor
Output	
Output rated voltage	24 Vdc
Output voltage range	23 – 28.5 Vdc
Output rated current	4 A
Output limited current	4.4 ... 4.7 A (constant current)
Class 2 output (UL Limited Power Source, LPS)	No
Parallel connection	Yes
Serial operation	Yes
Power dissipation, no load/rated load	< 1 W / 12 W (230 Vac)
Max. power losses	15 W (100 Vac / 24 V / 4 A)
Ripple factor	typ. 20mVss
Resistance to reverse feed max.	35 Vdc
Over-voltage-protection	max. 40 Vdc
Efficiency	89 %
Signaling	
Status indicator	LED green Uout > typ. 21.5 Vdc LED lit permanently
Signal output	Active high signal Uout > typ. 21.5 Vdc max. 20 mA@24 Vdc short circuit proof
Approvals	
Approvals	cURus, cULus, GL
Environment	
Storage temperature	-13 °F to +185 °F
Ambient temperature	-13 °F to +158 °F
Derating	-3 %/K > +122 °F
Mounting position	horizontal for standard rail DIN TS35
Type of cooling	Natural convection
Required minimum spacing (left/right)	0.00 inch
Required minimum spacing (over/under)	1.97 inch
Safety and protection	
Protection index	IP 20
Safety class	II, without PE connection
Order numbers	
Order Number	**PM-0124-040-0**

Mechanical data

Type	PM-0124-040-0
Terminal and mounting	
Terminals input (direct plug-in technology Push-in)	max 2,5 mm²
Terminals output (direct plug-in technology Push-in)	max 2,5 mm²
Terminals signalling (direct plug-in technology Push-in)	max 2,5 mm²
Measures and weights	
Weight	0.86 lbs

Dimensions in inch



Subject to change.