

Single-phase, primary switched mode power supply **PM-0124-038-0**



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 for NEC Class 2 applications to UL 60950, UL 508

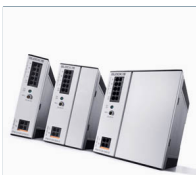
Safety:
EN 61558-2-16, EN 60950-1, EN 60335-1

EMC:
EN 61204-3

Approvals



UL/CSA 60950 recognised, UL 508 listed, GL



Single-phase, primary switched mode power supply

PM-0124-038-0

Type		PM-0124-038-0
Electrical data	Special features	
	Characteristics	For establishing NEC Class 2 circuits
	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)	1.5 A (100 Vac, 91 W) / 0.6 A (240 Vac, 91 W)
	Starting current limiter	< 30 A, NTC
	Switch-on time	<0.5 s (100 Vac) / <0.2 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 (> 24 Vdc constant capacity)
	Output rated current	3.8 A / NEC Class 2
	Output limited current	3.8 ... 3.2 A (constant current, Class 2)
	Class 2 output (UL Limited Power Source, LPS)	Yes
	Parallel connection	Yes
	Serial operation	Yes
	Power dissipation, no load/rated load	2.8 W / 14 W (230 Vac)
	Max. power losses	<20 W (100 Vac / 91 W)
	Ripple factor	typ. 20mVss
	Resistance to reverse feed max.	35 Vdc
	Over-voltage-protection	max. 40 Vdc
	Efficiency	87 %
	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-0124-038-0

Type		PM-0124-038-0
Mechanical data	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

