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



### Advantages

Stabilised and adjustable output voltage			
Low stand-by consumption <1 W			
Constant current characteristic			
DC OK signalling			
Parallel operation optien			
Push-in terminals			
Panel installation on mounting rails			
Conform to EN 60335-1			

## Applications

Efficient, primary switched mode power supply in slim plastic housing. 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, 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 housing. The DIN rail fastening method and push-in connection terminals enable fast and secure mounting.

### 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





UL/CSA 60950 recognised, UL508 listed, Germanischer Lloyd





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Туре	PM-0124-038-0		Туре	PM-0124-038-0
Input		30	Input	
Input rated voltage	100 - 240 Vac	e e e e e e e e e e e e e e e e e e e	Connections input (direct plug-in technology Push-	max 2,5 mm <sup>2</sup>
Input voltage range	85 - 264 Vac (120 - 373 Vdc)	-	ln)	111dX 2,J 11111-
Input voltage derating	-2.5 %/Vac < 95 Vac	g	Output	
Rated frequency range	44 Hz - 66 Hz / 0 Hz	data	Connections output (direct plug-in technology Push	max 2,5 mm <sup>2</sup>
Input rated current (rated load)	1.5 A (100 Vac, 91 W) / 0.6 A (240 Vac, 91 W)		ln)	111dX 2,0 11111*
Starting current limiter	< 30 A, NTC	<u>iö</u> .	Signaling	
Switch-on time	<0.5 s (100 Vac) / <0.2 s (230 Vac)	Mechanical	Connections signalling (direct plug-in technology	max 2,5 mm <sup>2</sup>
Power factor	0.5	낭	Push-In)	111dX 2,0 11111-
Input fuse internal	4 A	/e	Measures and weights	
Recommended back-up fuse (circuit breaker)	6 A, 10 A, 16 A, characteristic B, C	2	Weight Dimension (W x H x D)	0.39 kg 52 x 90 x 103.5 mm
Mains buffering	>15 ms (100 Vac) / >80 ms (230 Vac)			02 X 00 X 100.0 mm
Transient surge voltage protection	Varistor			
Output				
Output rated voltage	24 Vdc		3.5	and the second second
Output voltage range	23 – 28.5 Vdc (> 24 Vdc constant capacity)			
Output rated current	3.8 A / NEC Class 2		90.0	C C C C C C C C C C C C C C C C C C C
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		45.0	
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. 20 mVss		52.0	Aller restra
Resistance to reverse feed max.	35 Vdc			
Over-voltage-protection	max. 40 Vdc			$\checkmark$
Efficiency	87 %			
Signaling				
Typ. switching threshold for LED and signal output (DC OK)	•			
	LED green			
Status indicator	Uout > typ. 21.5 Vdc			
	LED lit permanently			
	Active high signal			
Signal output	Uout > typ. 21.5 Vdc max. 20 mA@24 Vdc			
	short circuit proof			
Approvals				
Approvals	cURus, cULus, GL			
Environment				
Storage temperature	-25° C +85° C			
Ambient temperature	-25° C +70° C			
Derating	-3 %/K > +50° C			
Mounting position	horizontal for standard rail DIN TH 35			
Cooling method	Natural convection			
Required minimum spacing (left/right)	0 mm			
Required minimum spacing (over/under)	50 mm			
Safety and protection				
Protection index	IP 20			
Safety class	II, without PE connection			
Order numbers				
Order Number	PM-0124-038-0			
OLACL MAIINEL	FW-0124-030-0			

