PM-0148-020-0



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 to UL 60950, UL 508

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

EMC:

EN 61204-3

Approvals







UL/CSA 60950 recognised, UL508 listed, Germanischer Lloyd



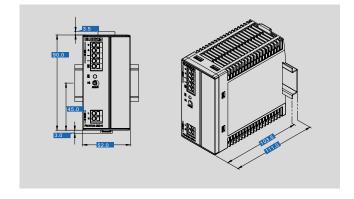


Order Number

Single phase, primary switched mode power supply **PM-0148-020-0**

	Type	PM-0148-020-0
+	Input	
+	Input rated voltage	100 - 240 Vac
	Input voltage range	85 - 264 Vac (120 - 373 Vdc)
ıσ	Input voltage derating	-2.5 %/Vac < 95 Vac
Electrical data	Rated frequency range	44 Hz - 66 Hz / 0 Hz
۱ ــــــــــــــــــــــــــــــــــــ	Input rated current (rated load)	1.79 A (100 Vac) / 0.9 A (240 Vac)
9	Starting current limiter	< 30 A, NTC
5	Switch-on time	0.5 s (100 Vac) / 0.3 s (230 Vac)
ភ្ល	Power factor	0.5
1	Input fuse internal	4 A
	•	6 A, 10 A, 16 A,
	Recommended back-up fuse (circuit breaker)	characteristic B, C
	Mains buffering	15 ms (100 Vac) / 80 ms (230 Vac)
	Transient surge voltage protection	Varistor
	Output	40.1/1
	Output rated voltage	48 Vdc
	Output voltage range	40 - 56 Vdc
	Output rated current	2 A
	Output limited current	2.2 2.4 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 / 16.2 W (230 Vac)
	Max. power losses	19.8 W (100 Vac / 48 V / 2 A)
	Ripple factor	typ. 20 mVss
	Resistance to reverse feed max.	63 Vdc
	Over-voltage-protection	max. 60 Vdc
	Efficiency	86 %
	Signaling	
	Typ. switching threshold for LED and signal output	
	(DC OK)	
		LED green
	Status indicator	Uout > typ. 39 Vdc
		LED lit permanently
		Active high signal
	Signal output	Uout > typ. 39 Vdc
	•	max. 10 mA@48 Vdc short circuit proof
	Approvals	Short the tall proof
	Approvals	cURus, cULus, GL
	Environment	corrus, cocus, oc
		-25° C +85° C
	Storage temperature	-25° C +70° C
	Ambient temperature	-25° C +70° C -3 %/K > +50° C
	Derating Mounting position	
	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	

	Туре	PM-0148-020-0
00.	Input	
\(\frac{1}{2}\)	Connections input (direct plug-in technology Push-In)	max 2,5 mm ²
ţa	Output	
Mechanical data	Connections output (direct plug-in technology Push-In)	max 2,5 mm ²
١٥	Signaling	
char	Connections signalling (direct plug-in technology Push-In)	max 2,5 mm ²
₽	Measures and weights	
	Weight	0.39 kg
	Dimension (W x H x D)	52 x 90 x 103.5 mm





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