#### PM-0148-020-0



## Advantages

Stabilised and adjustable output voltage

Low stand-by consumption <1 W

Constant current limiting without overload shutdown

DC OK signalling

Push-in terminals

Panel installation on mounting rails

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 of AS-i circuits as well as for medical applications according to UL 60601 are available.

#### 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, GL, EAC



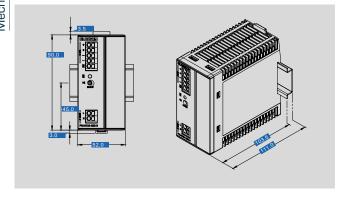


Order Number

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

	_	D11 04 10 000 0
	Type	PM-0148-020-0
Ĵ٢	Special features	
<b>၊+</b> ԴԸ	Characteristics	
	Input	
tа	Input rated voltage	100 - 240 Vac
g	Input voltage range	85 - 264 Vac (120 - 372 Vdc)
а	Input voltage derating	-2.5 %/Vac < 95 Vac
Electrical data	Rated frequency range	44 Hz - 66 Hz / 0 Hz
	Input rated current (rated load)	1.79 A (100 Vac) / 0.9 A (240 Vac)
음	Starting current limiter	< 30 A, NTC
ш.	Switch-on time	0.5 s (100 Vac) / 0.3 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	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 Ripple factor	19.8 W (100 Vac / 48 V / 2 A) typ. 20mVss
	Resistance to reverse feed max.	63 Vdc
	Over-voltage-protection	max. 60 Vdc
	Efficiency	86 %
	Signaling	
		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 of the date product
	Approvals	cURus, cULus, GL, EAC
	Environment	Sorido, SOLIO, OL, LAG
		-25 °C to +85 °C
	Storage temperature	-25° C to +70° C
	Ambient temperature Derating	-3 %/K > +50 °C
	Mounting position	horizontal for standard rail DIN TS35
	Type of cooling	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 Huffibers	DN 0440 000 0





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