YSDN240-48005000 YSDN240-24010000

DIN rail industrial power supply

FEATURES:

- robust metal enclosure
- DC OK LED
- high energy efficiency
- low ripples and excellent voltage regulation
- wide temperature range
- double output connector

A series 48 V DIN rail power supplies in a robust metal housing with features such as DC voltage trimming with a potentiometer, and a DC OK LED signaling.

These power supplies are designed for wide use in industrial automation and telecommunication systems. The series consists of single-phase power supplies with high efficiency and operating in a wide range of temperatures. The power supplies have a built-in a set of protection circuits against short circuit and overload. They provide high MTBF and a high degree of safety. They comply with international standards.



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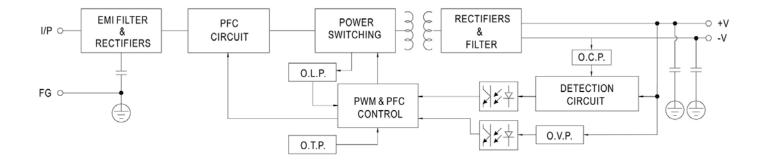
TECHNICAL SPECIFICATION

Group	Parameter	YSDN240-24010000	YSDN240-48005000	Notes
Input	Input voltage range	100-264VAC/	/120-370VDC	
	Mains frequency range	50/6	50/60Hz	
	AC current (max.)	2.8 A at	2.8 A at 100 VAC	
	Inrush current (max.)	70	70 A	
	No load power consumption	4.1	4 W	
	Input leakage current (max.)	Max.	Max. 1 mA	
	Power factor correction	0.9	0.97	
Output	Rated output voltage	24 V (23-28 V)	24 V (23-28 V) 48V (46-55 V)	
	Rated output power	240		
	Rated output current	10 A	5.0 A	
	Energy efficiency	88%	89%	
	DC "OK" LED	Ye		
	DC "OK" output signal	No		
	Line regulation		±1%	
	Load regulation	±1'		
	Ripple and noise	120 mVp-p	150 mVp-p	
	Minimal load	0		
	Hold up time (max.)	Over 20 ms		At 100 VAC and full load
	DC voltage rise time (max.)		Up to 50 ms	
	Turn on delay time (max.)	·	Up to 1 s	
Environmental	Working temperature	•	-20 to +70°C	
	Working humidity		20% to 85% RH	
	Storage temperature		-40°C to +85°C	
	Cooling method		Free air circulation	
	MTBF		200.000 h	
Protection safety and EMC	Short circuit	, .	Yes	
	Over temperature		Yes	
	Over current		120-140% of rated lout	
	Automatic recovery on fault remove	Protection type: Hiccup Mod	Protection type: Hiccup Mode – recovers automatically after fault condition is removed	
	Output overvoltage	At 29-33 V	At 56-65 V	
	Withstand isolation voltage	The state of the s	3 kVAC (I-O), 2 kVAC (I/O-FG) Operating altitude up to 2000 m	
	Isolation resistance (min)		100 ΜΩ	
	Insulation class		1	
	Safety compliance	EN62	EN62368-1	
	EMC compliance	EN55032, EN61000- 3-2, -3	EN55032, EN61000- 3-2, -3, EN61000-4-2, 3,4,5,6,8,11, EN61000-6-2 EN55024, EN61204-3	
	Marking		Rohs, CE, UKCA	
Mechanical and features	Enclosure		Metal housing, DIN TS35 mount	
	Dimension	-	63 × 125 × 113 mm	
	Weight		880 g	
	Output connector		Terminal block, double connector	
	Input connector	·	Terminal block	
	Single package		155 × 100 × 155 mm	
	Packing		525 × 330 × 175 mm	
	Manufacturing		China	
	Warranty		3 years	

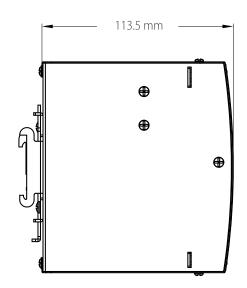
CE HR

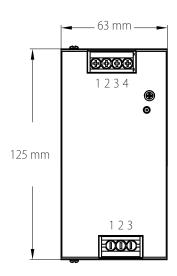
Notes:

Unless otherwise stated, all parameters are specified at 230 VAC input voltage, 50 Hz, ambient temperature 25°C and relative humidity 70% for rated load output. The values of parameters related to the output voltage regulation is measured from low to high line or for load changes from 0 to 100%, respectively. The power supply is considered as an independent unit, but the final equipment still need to reconfirm that the whole system complies with the EMC directives. If the PSU is installed in the final device as a subassembly, the tests should be repeated to verify that the system has been met compliance. Detailed technical data are available on request.



MECHANICAL SPECIFICATION





DERATING CURVES

