# YSDN480-24020000 YSDN480-48010000

# **YINGJIAO** Electrical

# **DIN rail industrial power supplies**

#### **FEATURES:**

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

Active PFC

A series 24 V and 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





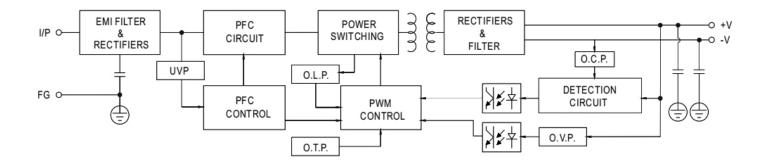
#### **TECHNICAL SPECIFICATION**

Input voltage range	100-264VAC/12	100-264VAC/120-370VDC	
Mains frequency range	50/60H	50/60Hz	
AC current (max.)	5.3 A at 100	O VAC	
Inrush current (max.)	40 A 5 W		
No load power consumption			
Input leakage current (max.)	Max. 1.5	Max. 1.5 mA	
Power factor correction	0.92		Active PFC
Rated output voltage	24 V (23-28 V)	48 V (47-55 V)	
Rated output power	480 W	<i>I</i>	
Rated output current	20.0 A	10.0 A	
Energy efficiency	91%	92%	
DC "OK" LED	Yes	Yes	
DC "OK" output signal	No		
Line regulation	±1%	±1% ±1%	
Load regulation	±1%		
Ripple and noise	120 mVp-p	150 mVp-p	
Minimal load	0 A		
Hold up time (max.)		ms	At 100 VAC and full load
•	Up to 100	Up to 100 ms	
•	· ·		
,	·		See deration curve
			Non-condensing
		-40℃ to +85℃ Free air circulation	
• •			
•			
		Yes	
,		ated lout	
over current			
Automatic recovery on fault remove			
Output overvoltage	At 29-33 V At 56-65 V		
Protection safety	3 kVAC (I-O), 2 kVAC (I/O-FG)		
Withstand isolation voltage	Operating altitude up to 2000 m		5 mA, 1 min
Isolation resistance (min)	100 ΜΩ		500 VDC
Insulation class	1		
Safety compliance	EN6236	EN62368-1	
EMC compliance	EN55032, EN61000- 3-2, -3, EN61000-4-2, 3,4,5,6,8,11, EN61000-6-2 EN55024 EN61204-3		
Marking		RoHS, CE, UKCA	
	-	-	
		1400 g Terminal block, double connector Terminal block 165 × 117 × 150 mm 490 × 345 × 165 mm	
•	· ·		
Single package			
Packing			
Packing Manufacturing	490 * 345 * 1 China		8 items
	AC current (max.) Inrush current (max.) No load power consumption Input leakage current (max.) Power factor correction Rated output voltage Rated output power Rated output current Energy efficiency DC "OK" LED DC "OK" output signal Line regulation Load regulation Ripple and noise Minimal load Hold up time (max.) DC voltage rise time (max.) Turn on delay time (max.) Working temperature Working humidity Storage temperature Cooling method MTBF Short circuit Over temperature Over current Automatic recovery on fault remove Output overvoltage Withstand isolation voltage Isolation resistance (min) Insulation class Safety compliance EMC compliance EMC compliance Marking Enclosure Dimension Weight Output connector Input connector	AC current (max.)  Inrush current (max.)  No load power consumption  S W Input leakage current (max.)  Rated output voltage Rated output voltage Rated output current  Energy efficiency  PC "OK" LED  CO "OK" LED  CO "OK" output signal  Line regulation  Line regulation  Line regulation  Ripple and noise  Minimal load  Hold up time (max.)  DC voltage rise time (max.)  Working temperature  Working humidity  Storage temperature  Cooling method  Automatic recovery on fault remove  Output overvoltage  EMC compliance  EMC compliance  EMC compliance  EMC compliance  EMC connector  Metal housing, Dib  Rolpel and noise  S 3 k VAC (I-O), 2 kk Operating altitude  Line regulation  S 3 k VAC (I-D)  ENSSO32, EN61000- 3-2, -3, -3, -3, -3, -3, -4, -2, -3, -3, -3, -4, -4, -4, -4, -4, -4, -4, -4, -4, -4	AC current (max.)  Inrush current (max)  No load power consumption  Fower factor correction  Rated output voltage  Rated output power  Rated output current  Power factor correction  Rated output power  Rated output current  Rated output correlation  Rate facture condition is removed  Rated output correlation  Rated output correlation

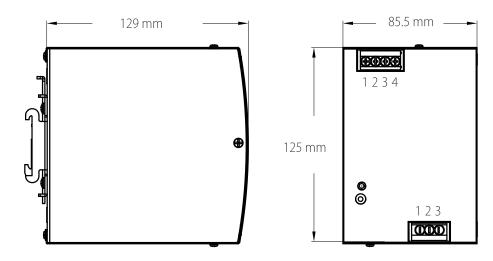
CE HR

#### 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**

