240W/48V Industrial DIN Rail Power Supply

(GWS-DP240-24)

240W Industrial Power Supply

- Power Input: AC 90~264V
- Support production for short circuit/over current/over voltage
- Wide operation temperature range: -40℃~70℃
- 100% full load aging test
- High efficiency, long life time and high reliability
- Meet EMC Standard

Application

- Industrial Control System
- Semiconductor fabrication equipment
- Factory automation
- Electro-mechanical apparatus

Description

GWS-DP240-24 is one economical slim 240W industrial DIN Rail power supply series, adapting to be installed on TS-35/7.5 or TS-35/15 mounting rails. The entire series adopts the full range AC input from 90VAC to 264VAC and conforms to EN61000-3-2, the norm the European Union regulates for harmonic current.

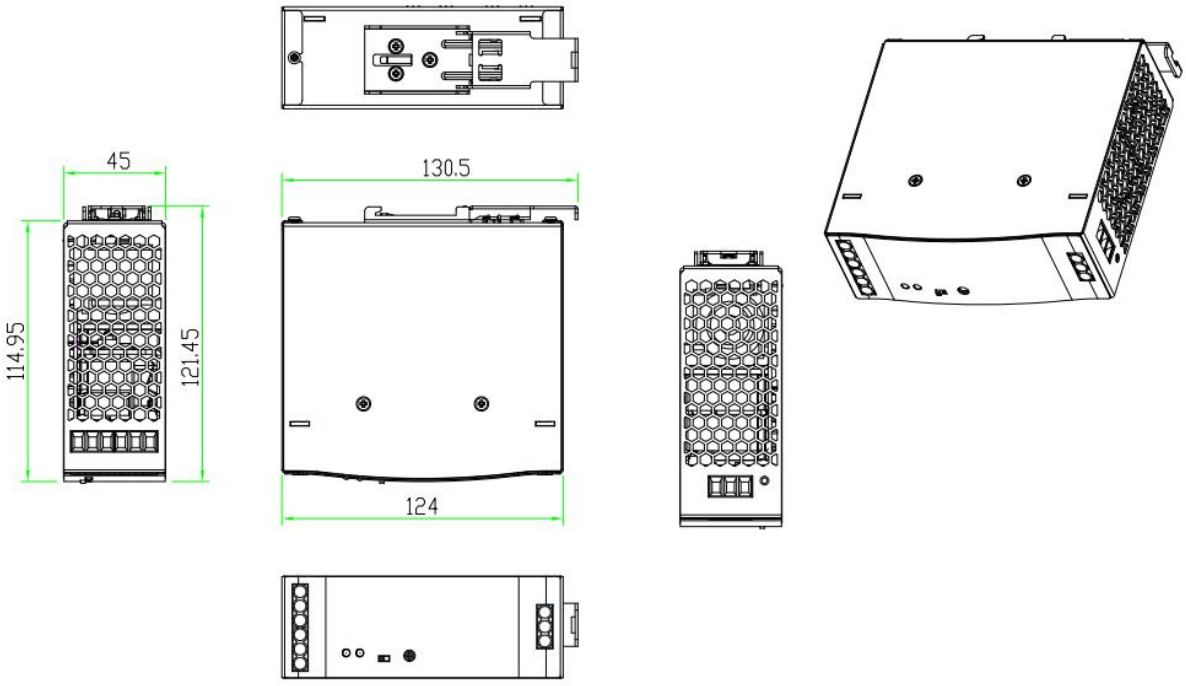
GWS-DP240-24 is designed with a metal shell, which is easy to increase the heat dissipation of the machine. The working efficiency is as high as 90%. The product can work in -40℃ to 70℃ambient temperature under the condition of air circulation. It has a constant current mode overload protection function and is suitable for various Inductive or capacitive load applications, complete protection functions and compliance with industrial control equipment certifications, making GWS-DP240-24 a very competitive power solution for industrial applications.

Technical Specification

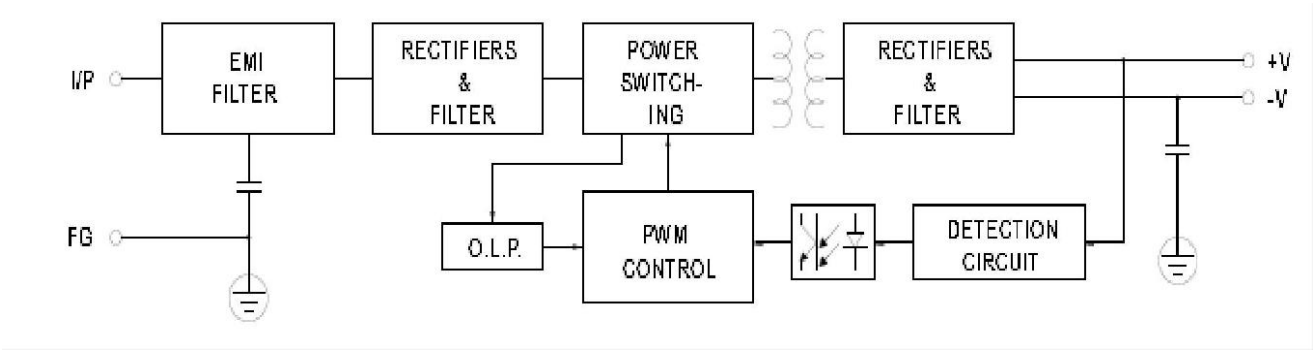
Model			GWS-DP240-24
Output	Group Of Output		1
	DC Voltage		24VDC
	Default Output Voltage		0-10A
	Ripple Noise	0＜Ta≤55℃	≤50mVp-p
		-15≤Ta≤0℃	≤100mVp-p
	Stabilized Voltage Precision		±1%
	Line Regulation		±1%
	Load Regulation		±1%
	Temperature Coefficient		±0.03%/℃
	Output Start Time		≤3.0S (120Vac input, Full load); ≤2.0S (220Vac input, Full load)
	Output Hold Time		≥10mS(120Vac input, Full load); ≥20mS(220Vac input, Full load)
	Voltage Overshoot		<5.0%
Input	Input Voltage Range		90VAC~264VAC
	Input Rated Voltage Range		100VAC~240VAC
	Frequency Range		47Hz~63Hz
	Efficiency		91%
	Input Current		<2.2A
	Inrush Starting Current		<40A@300Vac Cold start;
	Leakage Current		input to output less than 0.25mA
Protection	Output	Over Power	288~360W Swing machine (Testing method: Increase the output current until enabling the protection. Protection mode:Swing machine, Self-recovery after over-power released.)
		Over Voltage	28-29V Swing machine (Short circuit the Pin1-2 of U8, swing machine. Output recovery to normal after removing the short circuit) Note: Do not use external voltage.
		Over Current	12~15A Swing machine (Testing method: Increase the output current until enabling the protection. Protection mode:Swing machine, Self-recovery after over-current released.)
		Short Circuit	It can be short circuited for a long time and automatically recover after the short circuit is eliminated.
Operation Environment	Operation Temperature And Humidity		-40℃~70℃; 20%~90%RH No condensing
	Storage Temperature And Humidity		-40℃~85℃; 5%~95%RH No condensing
Safety And	Security Standard		GB4943/EN60950
	Dielectric Strength		Input—Output:3KVac/10mA; Input--Case:1.5KVac/10mA; Output---Case:0.5KVDC/10mA

EMC Standard		Time for each testing is 1min.
	Insulation Resistance	Input-Output: 100M ohms; Input-Case: 100M ohms; Output-Case: 100M ohms;
	Electromagnetic Interference	EN55022 Class A
	Harmaonic Current	IEC61000-3-2 class A equipment requirements
	Electromagnetic interference Immunity	EN61000-4-2,4,5,6,8,11 ENV50204, class A heavy industry standard
Others	Design MTBF	100,000Hrs AT 25℃, MIL-217 Method 2 Components Stress Method
	Dimensions (W*H*D)	130.5*124*45mm
Notes	If the specification is not specified, all specifications and parameters shall be measured at rated input, rated load and 25 C ambient temperature. Ripple noise test method: the use of a 12# twisted pair, while the terminal to parallel capacitance of 0.1uF and 10uF, measured at the scope of the oscilloscope 20MHz bandwidth. The power supply will be installed on the final equipment as a component, and the final equipment will still have to meet the EMC condition.	

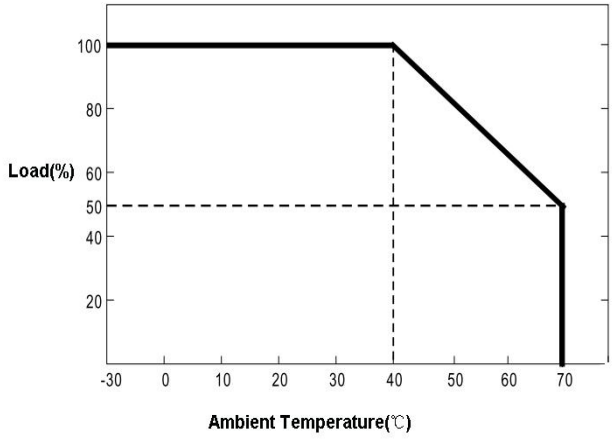
Dimension



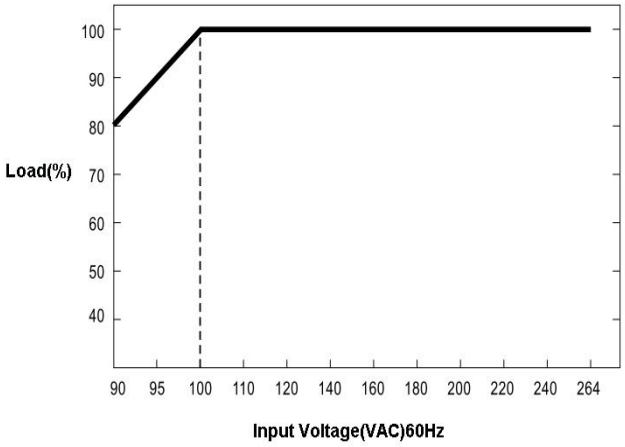
Block Diagram



Derating Curve



Static Characteristic Curve



Contact Us

Tel: 0086-755-33376606
Fax: 0086-755-33376608
Email: onv@onv.com.cn
Website: www.gwsdz.com/
Zip: 518000
Headquarter Address: Room 1003, Block D, Terra Building, Futian district, Shenzhen,China
Factory Address: The 4-6th Floor, A building, SenYuTai (Science&Technologoy) Park, HuaNing Road, Dalang sub-district, Longhua district , Shenzhen ,China