

120W/12V Industrial DIN Rail Power Supply (GWS-DP120-12)



Features



- Power Input: AC90~264V
- Support production for short circuit/over current/over voltage
- ▶ Wide operating ambient temp (-40 $^{\circ}$ ~70 $^{\circ}$)
- > 100% full load aging test
- High efficiency, long life time and high reliability
- No fan, completely tranquil work

Application

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

Description

GWS-DP120-12 is one economical slim 120W 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-DP120-12 is designed with metal housing that enhances the unit's power dissipation. With working efficiency up to 90%, the entire series can operate at the ambient temperature between -40 $^{\circ}$ C to 70 $^{\circ}$ C under air convection. It is equipped with constant current mode for over load protection, fitting various inductive or capacitive applications. The complete protection functions and relevant certificates for industrial control apparatus make GWS-DP120-12 a very competitive power supply solution for industrial applications.



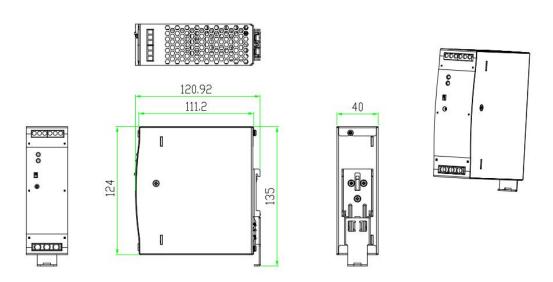
Technical Specification

Model			GWS-DP120-12
	Group Of Output		1
Output	DC Voltage		12VDC
	Default Output Voltage		0-10A
	0 <ta≤55℃ Ripple Noise-15≤Ta≤0℃</ta≤55℃ 		≤50mVp-p
			≤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 Voltage Range		90VAC~264VAC
	Input Rated Voltage Range		100VAC~240VAC
	Frequency Range		47Hz~63Hz
Input	Efficiency		90%
	Input Current		<1A
	Inrush Starting Current		<40A@300Vac Cold start;
	Leakage Current		input to output less than 0.25mA
			144~180W Swing machine (Testing method: Increase the output
Protecti		Over Power	current until enabling the protection. Protection mode:Swing machine,
on	Output		Self-recovery after over-power released.) 15-16V Swing machine (Short circuit the Pin1-2 of U8, swing machine.
		Over Voltage	Output recovery to normal after removing the short circuit) Note: Do
		Ver vollage	not use external voltage.
			12~15A Swing machine (Testing method: Increase the output current
		Over 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
Oporati	Operatio	n Tomporaturo And	the short circuit is eliminated.
	Operation Temperature And Humidity		-40℃~70℃; 20%~90%RH No condensing
Environ	Storage Temperature And		-40℃~85℃; 5%~95%RH No condensing
	Humidity Security	 Standard	GB4943/EN60950
	Occurry		OD+3+3/E1400330
Safety	Dielectric Strength		Input—Output:3KVac/10mA;
And			InputCase:1.5KVac/10mA;
EMC			OutputCase:0.5KVDC/10mA
Standar d	Insulation Resistance		Time for each testing is 1min.
u	Insulatio	n Resistance	Input-Output: 100M ohms; Input-Case: 100M ohms;
			Output-Case: 100M ohms;
	Electrom	agnetic Interference	
	Electromagnetic Interference		
		nic Current	IEC61000-3-2 class A equipment requirements
	<u>=lectromagnetic interference</u>		EN61000-4-2,4,5,6,8,11 ENV50204, class A heavy industry standard



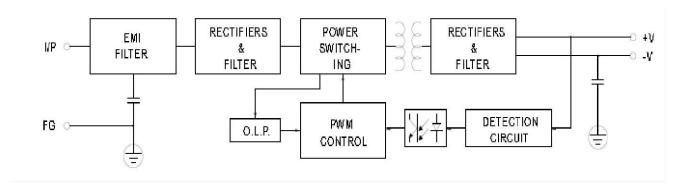
	Immunity		
Others	Design MTBF	100,000Hrs AT 25℃, MIL-217 Method 2 Components Stress Method	
	Product size(L*W*H)	135*121*40mm	
Notes	If the specification is not specified, all specifications and parameters shall be measured at rated input, rated load and 25 C ambient temperature. Ripple noise test method: 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

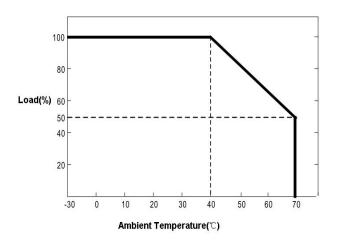


Block Diagram

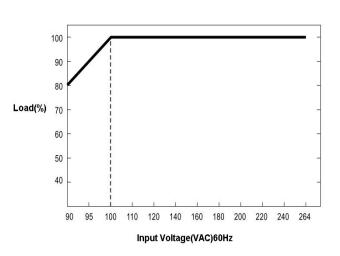




Derating Curve



Static Characteristic Curve



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