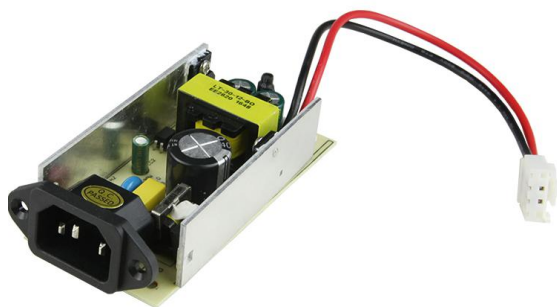


## 30W/12V Open Frame Power Supply (GWS-BP30-12)



### Features



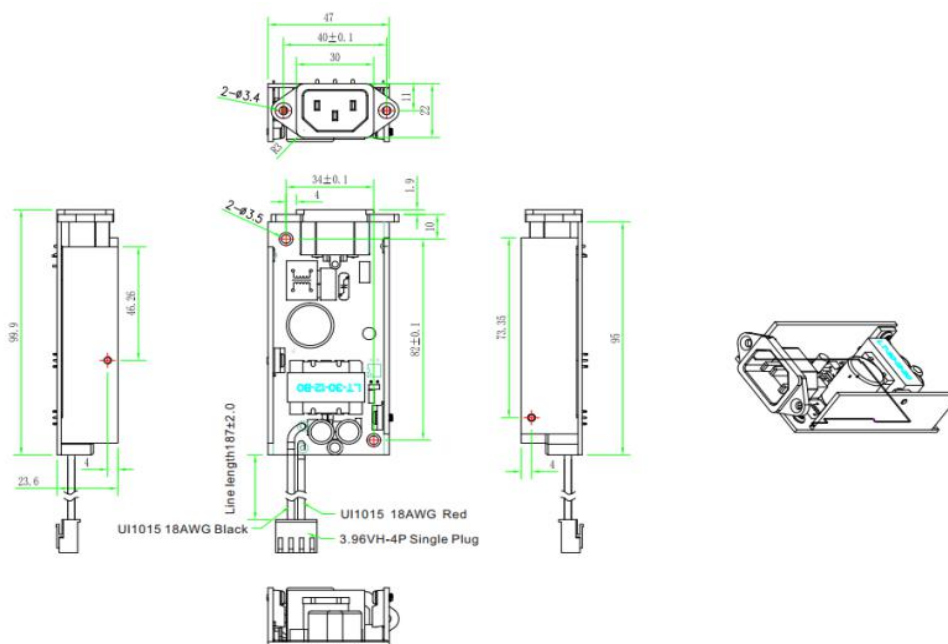
- Power Input: AC90~264V
- Support protection for short circuit/over current/over voltage
- Wide operating ambient temp (-20℃~65℃)
- 100% full load aging test
- High efficiency, long life time and high reliability
- No fan, completely tranquil work
- 3 years warranty

### Technical Specification

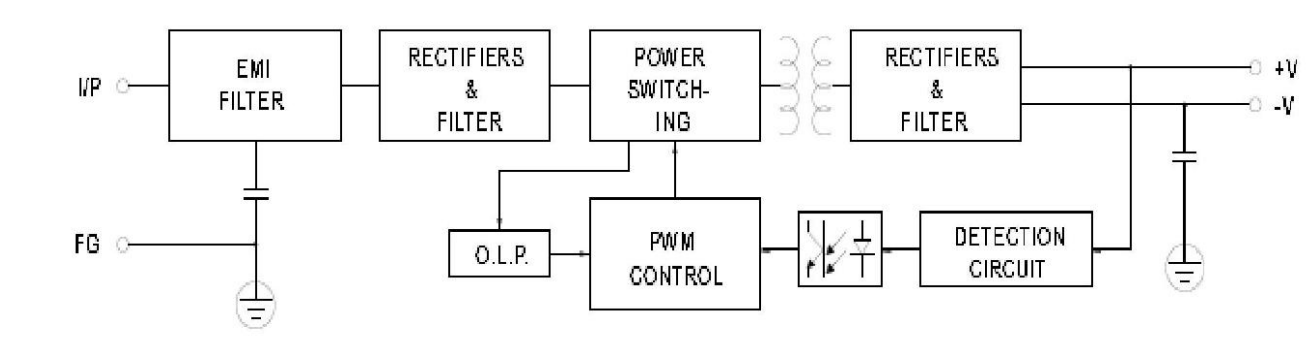
Model			GWS-BP30-12
Output	Group Of Output		1
	DC Voltage		12VDC
	Default Output Voltage		0-6A
	Ripple Noise	0<Ta≤55℃	≤50mVp-p
		-15≤Ta≤0℃	≤100mVp-p
	Stabilized Voltage Precision		±1%
	Line Regulation		±1%
	Load Regulation		±2%
	Temperature Coefficient		±0.03%/℃
	Output Start Time		≤3.0S (120Vac input, 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		85%
	Input Current		<0.38A
	Inrush Starting Current		<40A@300Vac Cold start;
	Leakage Current		input to output less than 0.25mA
Protection	Output	Over Power	36~45W Swing machine (Testing method: Increase the output current until enabling the protection. Protection mode:Swing machine, Self-recovery after over-power released.)
		Over Voltage	15-16V 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	3~3.75A 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.
<b>Operation Environment</b>	Operation Temperature And Humidity		-20℃~65℃; 20%~90%RH No condensing
	Storage Temperature And Humidity		-40℃~85℃; 5%~95%RH No condensing
<b>Safety And EMC Standard</b>	Security Standard		GB4943/EN60950
	Dielectric Strength		Input—Output:3KVac/10mA; Input--Case:1.5KVac/10mA; Output---Case:0.5KVDC/10mA 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
	Harmonic 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
<b>Others</b>	Design MTBF		100,000Hrs AT 25℃, MIL-217 Method 2 Components Stress Method
	Dimension		100*47*26mm
<b>Notes</b>	<p>If the specification is not specified, all specifications and parameters shall be measured at rated input, rated load and 25 C ambient temperature.</p> <p>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.</p> <p>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.</p>		

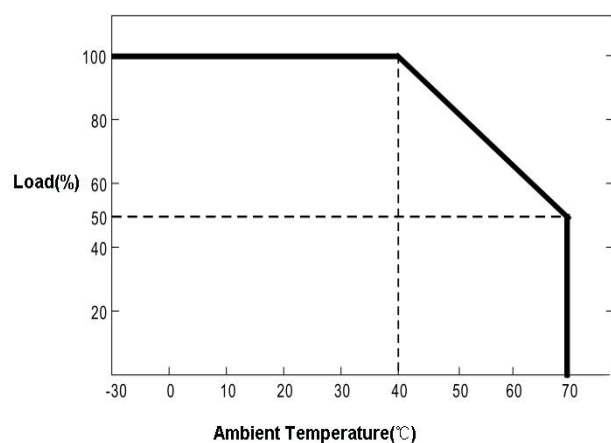
## Dimension



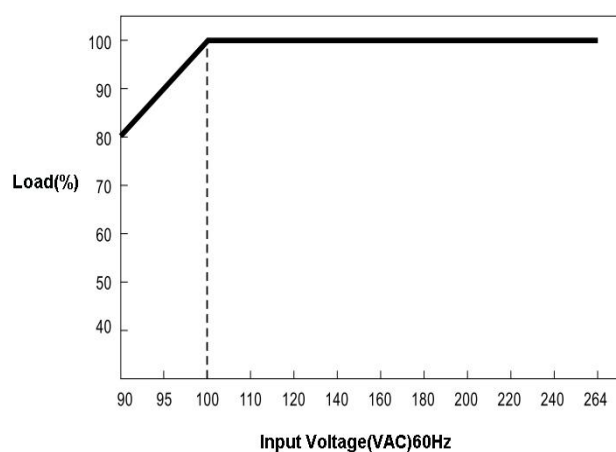
## Block Diagram



## Derating Curve



## Static Characteristic Curve



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