

**FEATURES :**

- Universal Input 90~264VAC
- High Efficiency at 85% Typical
- Protection: Short Circuit /Overload/Over Voltage
- Internal Input Filter
- 3 Years Warranty
- ROHS Compliant

Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

Part Number	Output Wattage	Output Voltage	Output Current	Ripple & Noise	Efficiency
	(W)	(VDC)	(mA)	(mV) max(Note)	(TYP %)
GP12-S03	10.0	3.3	3000	100	72
GP12-S05	12.0	5	2400	100	74
GP12-S09	12.0	9	1330	100	80
GP12-S12	15.0	12	1250	150	82
GP12-S15	15.0	15	1000	150	83
GP12-S24	15.0	24	625	240	84
GP12-S36	15.0	36	416	240	85
GP12-S48	15.0	48	313	240	85

**Input Specifications**

Parameters	Conditions	Min	Typ	Max	Units
Rated Input	Vo, Io nom		100~240		Vac
Voltage Range	Vo, Io nom	AC in	90	264	Vac
		DC in	120	370	Vdc
Line Frequency	Vi nom, Io nom	47	50/60	63	Hz
Inrush Current	Io nom	Vi:115VAC		10	A
		Vi:230VAC		20	A
Input Fuse	VDE/UL/CCC	FUSE 2.5A/250V (Slow blow)			

**Output Specifications**

Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom, Io nom	3.3...9V Models		±3	%
		12...48V Models		±2	%
Minimum Load	Vi nom	0			%
Line Regulation	Io nom, Vi min...Vi max		±1		%
Load Regulation	Vi nom, Io min...Io nom		±2		%
Transient Recovery time	Vi nom, Io nom = ↔→0.5 Io nom		1000		us
Protection	Over Load	Above 110% rated output power <b>Protection type:</b> Recovers automatically after fault condition is removed			
	Short circuit	Recovers automatically after fault condition is removed			
	Over Voltage	120%-150% rated output Voltage <b>Protection type:</b> Zener diode clamp			

**Note :**  
Ripple & noise is measured by using 20 MHz bandwidth, measured with a 47uf paralleled with a high-frequency 0.47uf capacitor across each output by full load.

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AC-DC Converter

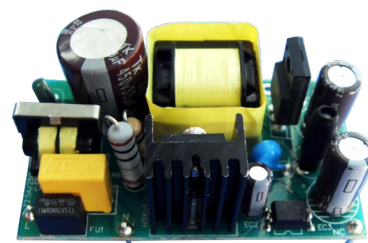
GP12 SERIES

10~15Watt

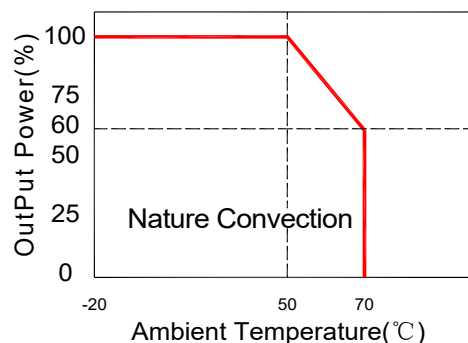
4KVac Isolated

Single Output

Open Frame



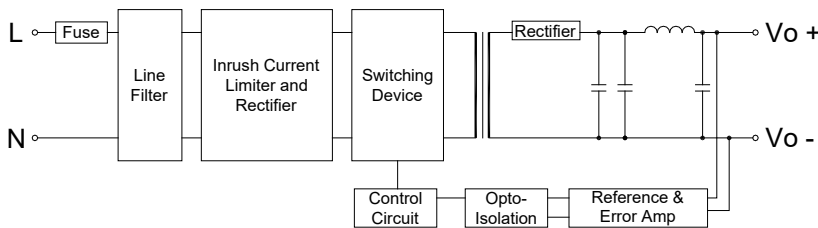
Temperature Derating Graph



General Specifications

Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom, Io nom		65		KHz
Isolation Voltage	Input / Output	4KVac/ 5mA/5Secs			
Isolation Resistance	Input / Output,@500 Vdc	100			MΩ
Operating Temperature	Operating at Vi nom, Io nom	-20		+70	°C
Derating	Vi nom, Io nom+51 to 71°C			2	%/°C
Storage Temperature	Non Operational	-40		+85	°C
Relative Humidity	Vi nom, Io nom			95	% RH
Safety Standards	Design refer to EN60950-1				
EMI Conduction & Radiation	Design refer to EN55022				
EMS Immunity	Design refer to EN55024				
Dimension	L65 x W38 x H25.0MAX				
Cooling	Free air convection				

Circuit Schematic

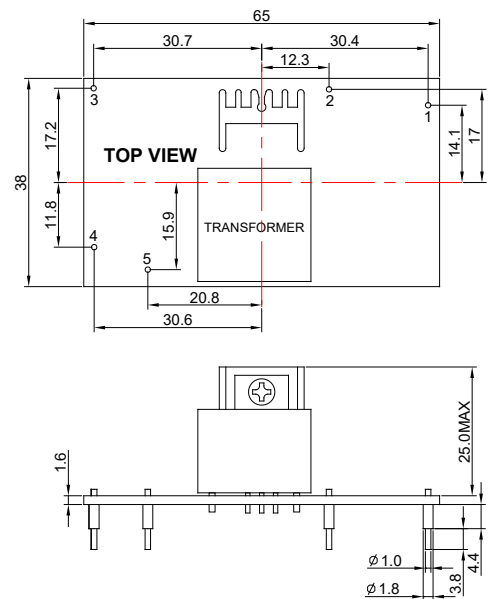


Part Number

GP12 - S 05  
A B C

- A : Series
- B : Single Output
- C : Output Voltage

Markings and Dimensions



Unit : mm  
Unless otherwise specified, all tolerances are ±0.50

PIN	Single
1	ACL
2	ACN
3	NC
4	-Vo
5	+Vo

