

## 1Watt,Single Output,AC-DC Open Frame Converter

### FEATURES:

- Universal Input 85~305VAC
- Efficiency at 66% Typical
- Protection: Short Circuit / Over Load
- Ultra small size
- 2 Years Warranty
- ROHS Compliant

$$\frac{GS1}{A} - \frac{S}{B} \frac{05}{C}$$

A:Series  
B:Single Output  
C:Output Voltage

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

Part Number	Output Wattage	Output Voltage	Output Current		Efficiency	Max. Capacitive Load
	(W)	(V)	(mA)(min)	(mA)(max)	%(TYP)	(μF)
GS1-S05C01	1	Vo=+5.0	0	200	66	600

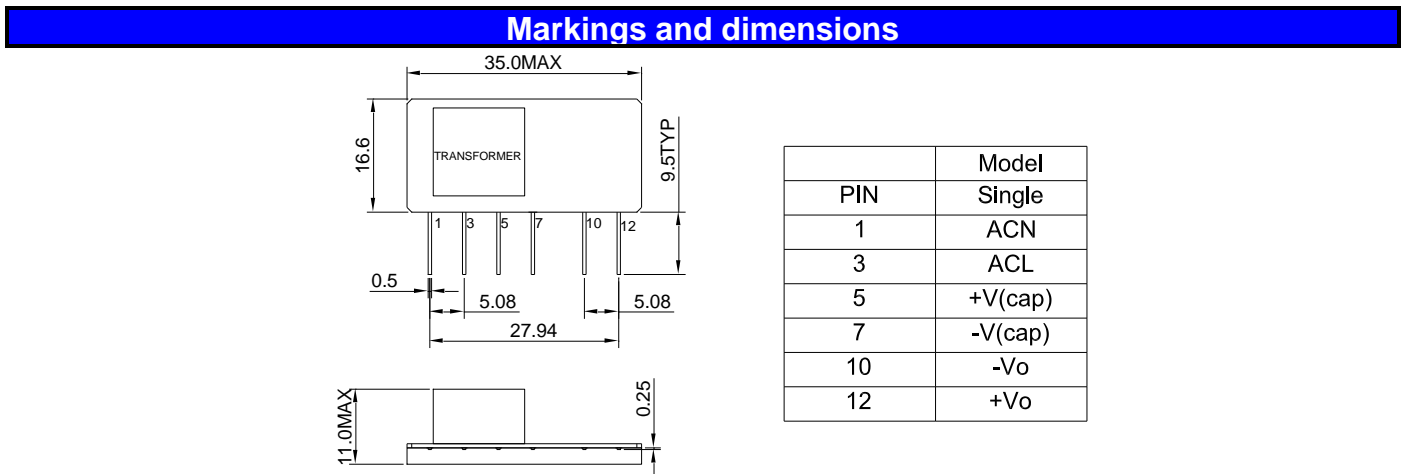
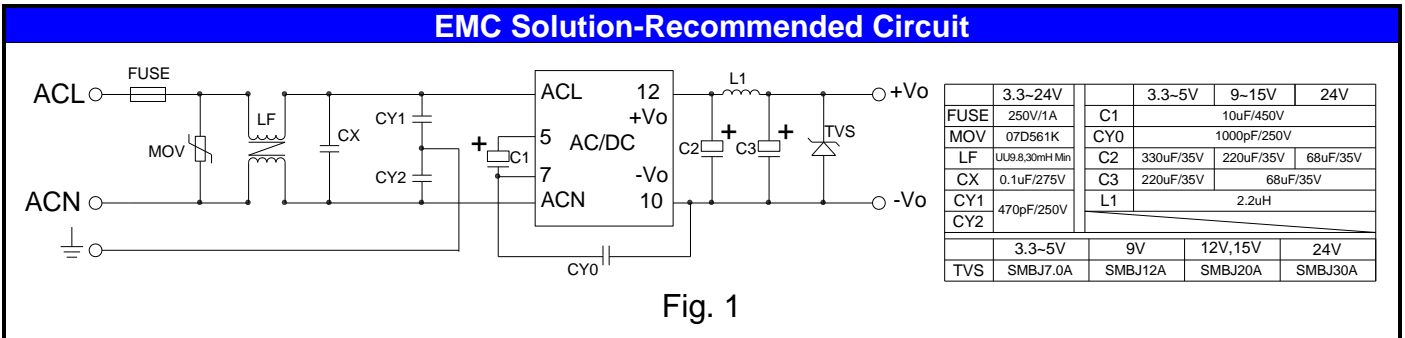
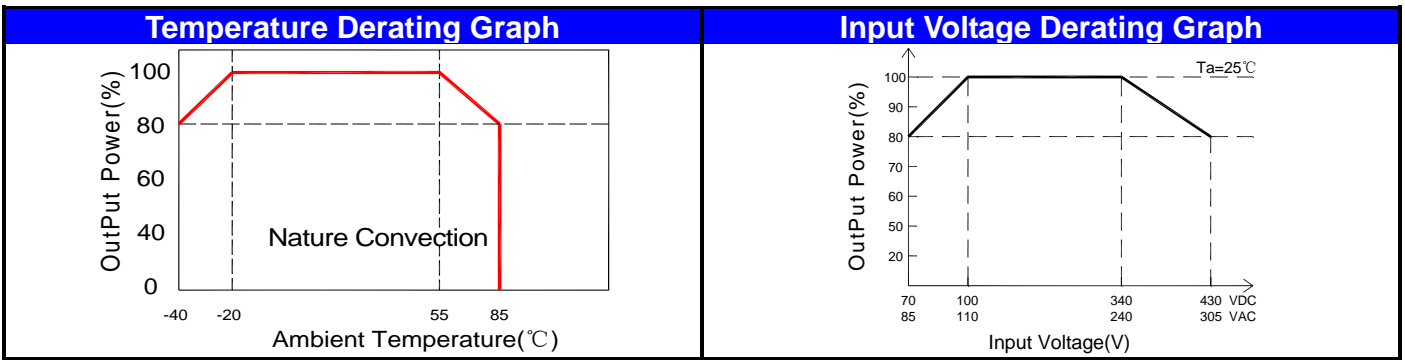
### Input Specifications

Parameters	Conditions	Min	Typ	Max	Units	
Rated input voltage	Vo,lo nom		100~277		Vac	
Voltage Range	Vo,lo nom	AC in	85		305	Vac
		DC in	70		430	Vdc
Line Frequency	Vi nom.lo nom	47		63	Hz	
Input Current	Io nom	Vi:115VAC		0.06	A	
		Vi:230VAC		0.03	A	
Inrush Current	Io nom	Vi:115VAC	10		A	
		Vi:230VAC	15		A	

### Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	Vi nom,lo nom			±5	%
Minimum Load	Vi nom	0			%
Line Regulation	Io nom,Vi min...Vi max		±1.5		%
Load Regulation	5%~100% Load		±2.5		%
No Load				0.5	W
Ripple & Noise	Vi nom,lo nom, BW=20MHz		50	120	mVp-p
Protection	Over Load	Above 110% rated output power			
	Short circuit	Recovery type: Recovers automatically after fault condition is removed			

General Specifications					
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom, Io nom			60	KHz
Isolation Voltage	Input / Output	3KVac/ 5mA/5Secs			
Isolation Resistance	Input / Output, @500 Vdc	100			MΩ
Operating Temperature	Refer to Temperature Derating Graph	-40		+85	°C
Storage Temperature	Non Operational	-40		+105	°C
Relative Humidity	Vi nom, Io nom			85	% RH
Safety Standards	Design refer to UL62368-1, IEC62368-1				
EMI Conduction & Radiation	EN55032, CLASS B (See Fig. 1 for recommended circuit)				
EMS Immunity	EN61000 (See Fig. 1 for recommended circuit)				
Dimension	L35.0 x W11.0 x H18.0 mm				
Cooling	Free air convection				



UNIT:mm Unless otherwise specified,all tolerances are  $\pm 0.5$