



FEATURES:

- Universal Input 85~305VAC
- High Efficiency Up to 81%
- Protection: Short Circuit / Over Load
- Ultra SmallSize
- 2 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	Efficiency	Max. Capacitive Load
	(W)	(VDC)	(mA)	(TYP %)	(μF)
GS5-S03(F)	3.3	3.3	1000	69	2200
GS5-S05(F)	5	5	1000	76	1500
GS5-S09(F)	5	9	560	77	680
GS5-S12(F)	5	12	420	79	470
GS5-S15(F)	5	15	340	79	330
GS5-S24(F)	5	24	210	81	100

Note:

add suffix "F" for 90°bending Products. For example: GS5-S05F, GS5-S12F

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AC-DC Converter

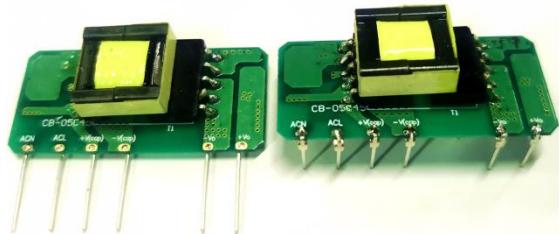
GS5 SERIES

5Watt

3KVac Isolated

Single Output

Open Frame



Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	Vi, Io nom	100~277			Vac
Voltage Range	Vi, Io nom	AC in	85	305	Vac
		DC in	100	430	Vdc
Line frequency	Vi nom, Ionom	47	63		Hz
Input Current	Io nom	Vi:115VAC		0.20	A
		Vi:230VAC		0.10	A
Inrush Current	Io nom	Vi:115VAC	13		A
		Vi:230VAC	23		A

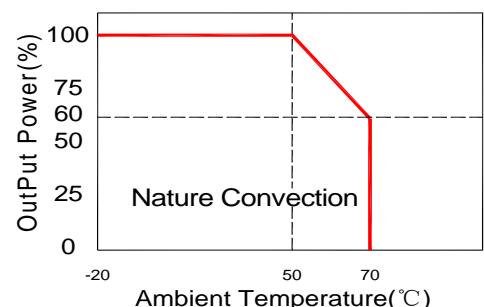
Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Output Voltage Accuracy	3.3V		±8		%
	5~24V		±5		%
Line Regulation	Io nom, Vi min...Vi max		±1.5		%
Load Regulation	10%~100% Load		±2.5		%
No Load		0.10	0.15		W
Ripple & Noise	Vi nom, Io nom, BW=20MHz	80	150		mVp-p
Protection	Over Load	Above 110% rated output power			
		Protection type: Recovers automatically after fault condition is removed			
	Short circuit	Recovers automatically after fault condition is removed			

Note: The product is able to work with 0% - 10% load and with stable output.



Temperature Derating Graph



CONTACT US

KAGA FEI America, Inc.
2349 Bering Drive
San Jose, CA 95131

Phone: (408) 570-0955
Fax: (408) 570-0186
Toll Free: (888) 2 - VOLGEN

www.volgen.com
Email: information@volgen.com

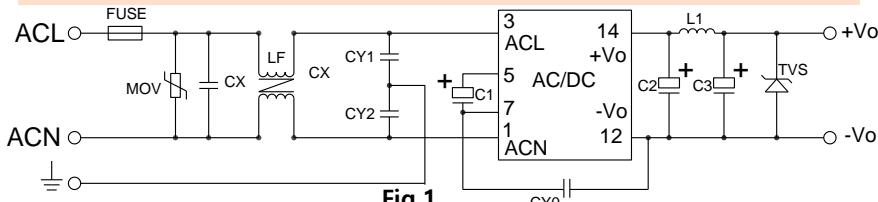
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General Specifications

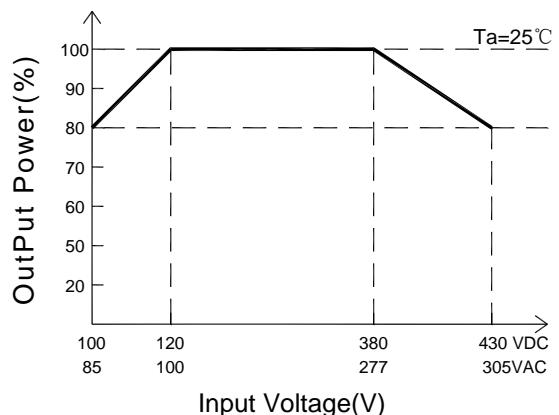
Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom,lo nom		60		KHz
Isolation Voltage	Input / Output	3KVac/ 5mA/5Secs			
Isolation Resistance	Input / Output,@500 Vdc	100			MΩ
Operating Temperature	Refer to Temperature Derating Graph	-20		+70	°C
Storage Temperature	Non Operational	-40		+105	°C
Relative Humidity	Vi nom,lo nom		85		% RH
Safety Standards	UL 62368-1, IEC62368-1 approved				
EMI Conduction & Radiation	EN55032,CLASS B(See Fig. 1 for recommended circuit)				
EMS Immunity	EN55035 (See Fig. 1 for recommended circuit)				
Dimension	L42.0 x W11 x H20.0 mm				
Cooling	Free air convection				

EMC Solution-Recommended Circuit



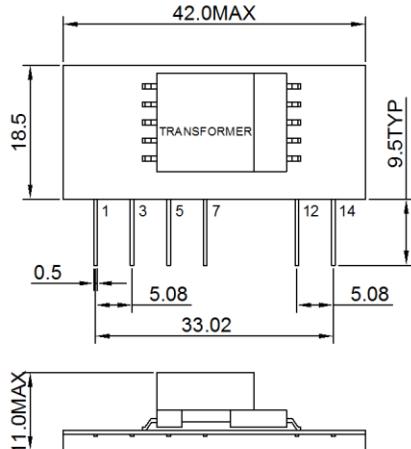
	3.3~24V	3.3~5V	9~15V	24V
FUSE	300V/2A			
MOV	14D561K			
LF	UU9.8,30mH Min			
CX	0.1uF/310V			
CY1	470pF/250V			
CY2				
	3.3~5V	9V	12V,15V	24V
TVS	SMBJ7.0A	SMBJ12A	SMBJ20A	SMBJ30A

Input Voltage Derating Graph

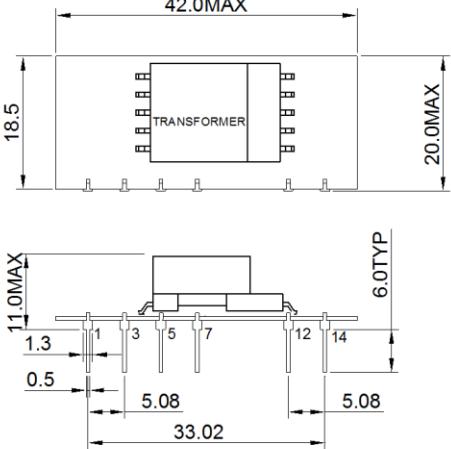


Markings and Dimensions

GS5-SXX



GS5-SXXF



UNIT:mm Unless otherwise specified, all tolerances are ±0.5

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