

FEATURES:

- Universal Input 85~305VAC
- High Efficiency Up to 80%
- Protection: Short Circuit / Over Load
- Ultra Smallsize
- 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	Efficiency	Max. Capacitive Load
	(W)	(VDC)	(mA)	(TYP %)	(μF)
GS3-S03(F)	1.65	3.3	500	67	800
GS3-S05(F)	2.5	5	500	68	800
GS3-S09(F)	3	9	333	75	600
GS3-S12(F)	3	12	250	77	470
GS3-S15(F)	3	15	200	78	470
GS3-S24(F)	3	24	125	80	120

Note:

add suffix "F" for 90° bending Products. For example: GS3-S05F, GS3-S12F

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Rated Input Voltage	Vo, Io nom		100~277		Vac
Voltage Range	Vo, Io nom	AC in	85	305	Vac
		DC in	70	430	Vdc
Line frequency	Vi nom, Io nom	47		63	Hz
Input Current	Io nom	Vi: 115VAC		0.12	A
		Vi: 230VAC		0.06	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.

Volgen

AC-DC Converter

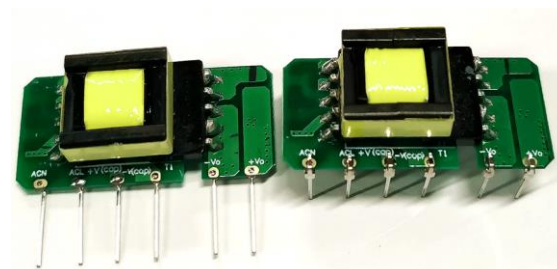
GS3 SERIES

3Watt

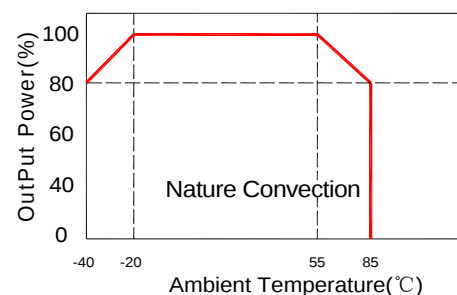
3KVac Isolated

Single Output

Open Frame



Temperature Derating Graph



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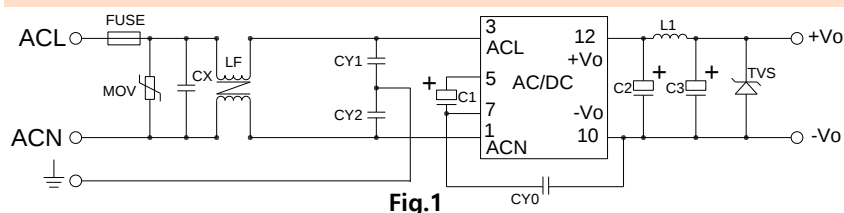
General Specifications

Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	V_i nom, I_o 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	V_i nom, I_o 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	L35.0 x W11.0 x H18.0 mm				
Cooling	Free air convection				

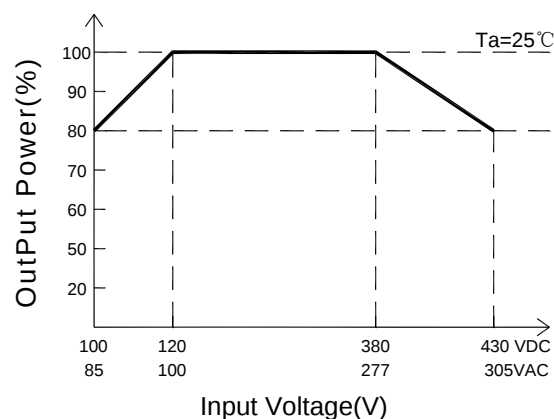
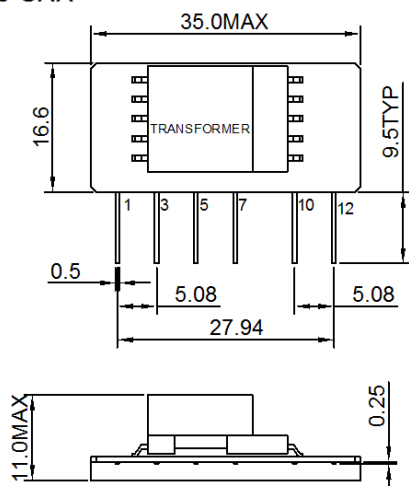
Part Number

GS3 - S 05 (F)
A B C D

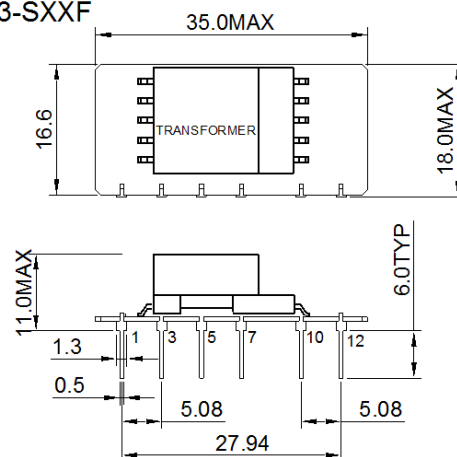
A : Series
B : Single Output
C : Output Voltage
D : Package

EMC Solution-Recommended Circuit

Fig.1

	3.3~24V		3.3~5V	9~15V	24V
FUSE	300V/2A	C1	10uF/450V		
MOV	14D561K	CY0	1000pF/400V		
LF	UU9.8,30mH Min	C2	820uF/10V (solid-state capacitor)	470uF/25V (solid-state capacitor)	330uF/35V (solid-state capacitor)
CX	0.1uF/310V	C3	470uF/10V	220uF/35V	
CY1	470pF/250V	L1	2.2uH		
CY2					
	3.3~5V	9V	12V,15V	24V	
TVS	SMBJ7.0A	SMBJ12A	SMBJ20A	SMBJ30A	

Input Voltage Derating Graph

Markings and Dimensions
GS3-SXX


PIN	Model
1	ACN
3	ACL
5	+V(cap)
7	-V(cap)
10	-Vo
12	+Vo

GS3-SXXF


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

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