

FEATURES :

- Universal Input 85~305VAC
- High Efficiency Up To 80%
- Protection: Short Circuit / Over Load
- Ultra small size
- 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		0.10	A
		Vi:230VAC		0.05	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, Io nom			±5	%
Minimum Load	Vi nom	0			%
Line Regulation	Io nom, Vi min...Vi max		±1.5		%
Load Regulation	5%~100% Load		±3.5		%
No Load				0.5	W
Ripple & Noise	Vi nom, Io nom, BW=20MHz(3.3-5V)		50	150	mVp-p
Ripple & Noise	Vi nom, Io nom, BW=20MHz(9-24V)		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			

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AC-DC Converter

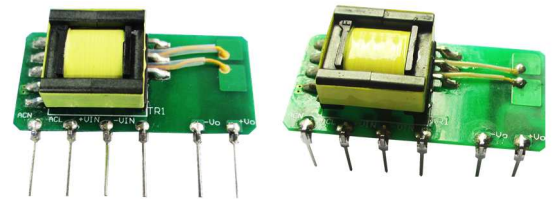
GS3 SERIES

3Watt

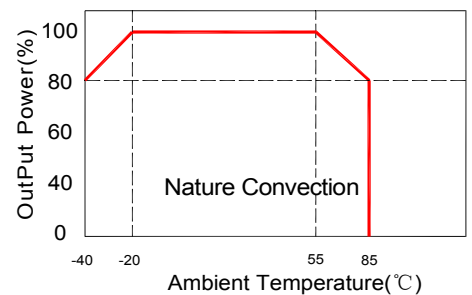
3KVac Isolated

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	Design refer to UL60950-1,IEC60950-1				
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				

Part Number

GS3 - S 05 (F)
A B C D

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

EMC Solution-Recommended Circuit

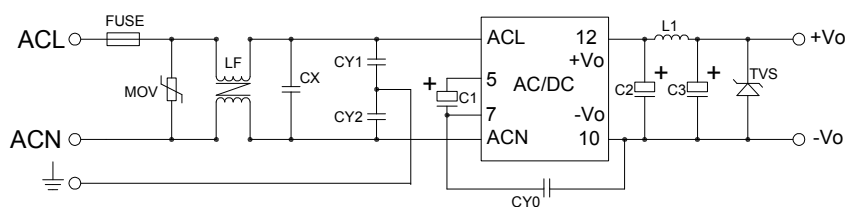
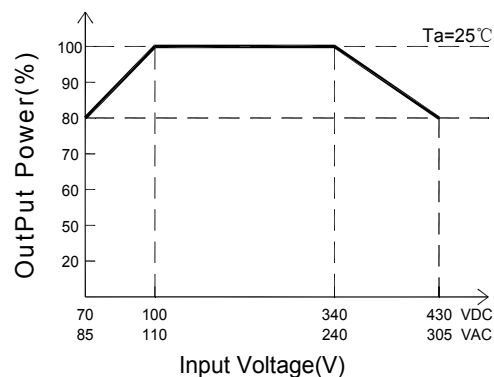


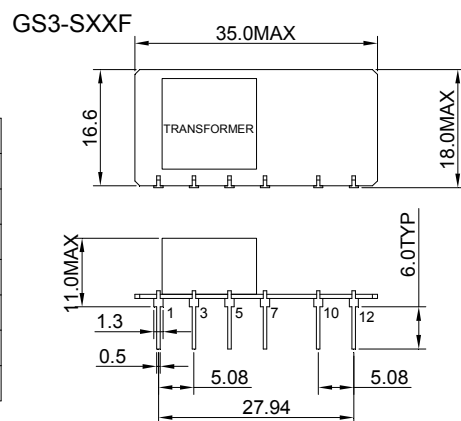
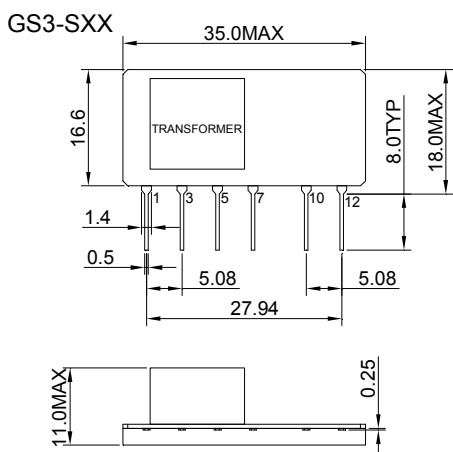
Fig.1

	3.3~24V		3.3~5V	9~15V	24V
FUSE	250V/1A	C1	10uF/400V		
MOV	07D471K	CY0	1000pF/250V		
LF	UU9.8,30mH/Min	C2	330uF/35V	220uF/35V	68uF/35V
CX	0.1uF/275V	C3	220uF/35V	68uF/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



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

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

