

FEATURES:

- Universal Input 90~305VAC
- Efficiency at 83% Typical
- Protection: Short Circuit / Over Load
- Energy Efficiency Conforms to DOE6
- No Load Power Consumption<0.1W
- Ultra small size •2 Years Warranty •ROHS Compliant

GS6G - S 12 F
A B C D

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

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)		
GS6G-S12FC01	6	Vo=+12	0	500	83	820

Input Specifications

Parameters	Conditions		Min	Typ	Max	Units
Rated input voltage	Vi,lo nom			100-277		Vac
Voltage Range	Vi,lo nom	AC in	90		305	Vac
		DC in	70		430	Vdc
Line Frequency	Vi nom.lo nom		47		63	Hz
Input Current	Io nom	Vi:115VAC			0.12	A
		Vi:230VAC			0.06	A
Inrush Current	Io nom	Vi:115VAC		15		A
		Vi:230VAC		30		A

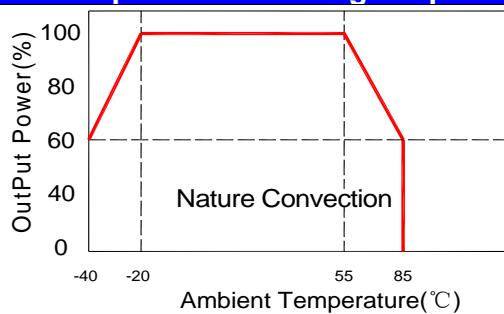
Output Specifications

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				0.1	W
Ripple & Noise	Vi nom,lo 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			

General Specifications

Parameters	Conditions	Min	Typ	Max	Units
Switching Frequency	Vi nom,lo nom		65		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,lo 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 H19.5 mm				
Cooling	Free air convection				

Temperature Derating Graph



EMC Solution-Recommended Circuit

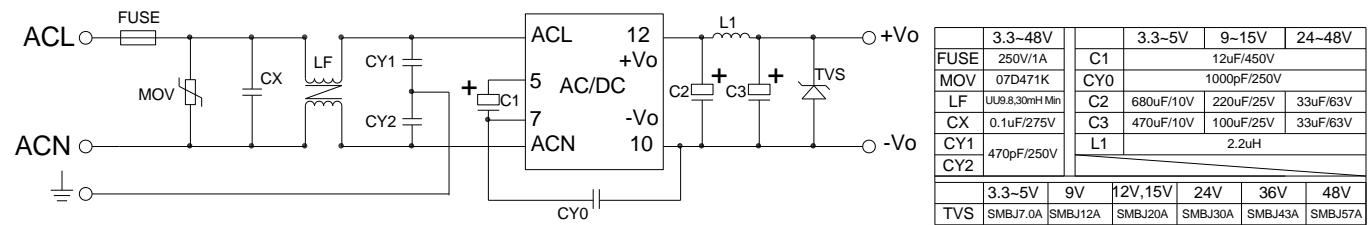
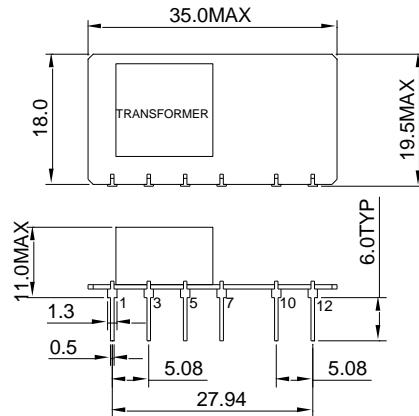


Fig. 1

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