

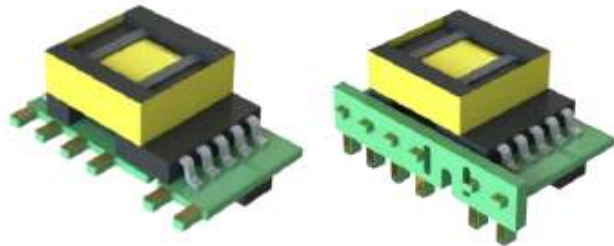
Features

- Wide Input Voltage Range 85~305V AC and 70 - 430VDC input voltage
- Approved to UKCA, CE, cURus, RoHS, REACH
- UL 62368-1, IEC62368-1 Safety Approved
- 81% Efficiency
- Accepts AC or DC input (dual-use of same terminal)
- Single Output 3.3-24V DC
- 2 Years Warranty



14GS5H1-SXX(F) Series

5 Watt Open Frame AC DC Power Supply



The 14GS5H1-SXX(F) Series is a high-performance Internal Power Supply (PSU)>Open Frame Chassis Power Supplies. Designed for use in applications such as digital signage, displays and user interfaces. This series is supplied with a Pin Connection input connection.

Model Number Information

14GS5H1 S XX (F)

Series Name Single Output Output Voltage Package

Models

Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Efficiency (%)	Max. Capacitive Load
14GS5H1-S03(F)	3.3	1000	3.3	69	2200
14GS5H1-S05(F)	5	1000	5	76	1500
14GS5H1-S09(F)	9	560	5	77	680
14GS5H1-S12(F)	12	420	5	79	470
14GS5H1-S15(F)	15	340	5	79	330
14GS5H1-S24(F)	24	210	5	81	200

Input Specifications		
Rated Input	100-277VAC	
Voltage Range	85-305V AC	70-430V DC
Frequency Range	47/63Hz	
Input Current	Vi:115VAC	0.20 A
	Vi:230VAC	0.10 A
Inrush Current	Vi:115VAC	20 A
	Vi:230VAC	40 A

Output Specifications		
Output Voltage Accuracy	3.3V, 10%~100% load	±8
	5~24V, 10%~100% load	±5
Minimum Load	10%	
Line Regulation	Io nom, Vi min...Vi max ±1.5%	
Load Regulation	10%~100% Load ±3.0%	
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

Environmental Characteristics	
Working Temp	-40 ~ +85°C(Please refer to derating graph)
Switching Frequency	Vi nom, Io nom 65 KHz
Isolation Voltage	3.6KVac/ 5mA/5Secs Vac
	5KVdc/ 5mA/5Secs Vdc
Storage Temperature	Non Operational -40 ~ +105 °C
Relative Humidity	Vi nom, Io nom 95 % RH

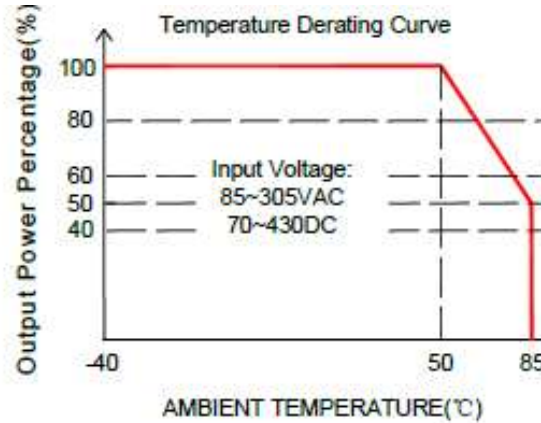
Safety & EMC	
Safety Standards	UL 62368-1, IEC62368-1 approved
Withstand Voltage	EN55032, CLASS B(See Fig. 2 for recommended circuit)
Isolation Resistance	EN55035 (See Fig. 2 for recommended circuit)

Dimensions & Weight	
	Measurements
14GS5H1-SXX	26.4 x 14.73 x 11.0 mm
14GS5H1-SXXF	27.84 x 11.60 x 17.60 mm

Packaging

	Outer carton	box size	weight
14GS5H1-SXX	375x320x160mm	350x300x45	5.5grams/pcs
14GS5H1-SXXF	460x240x220mm	210x210x30	6.3grams/pcs

Temperature derating curve



Basic Application

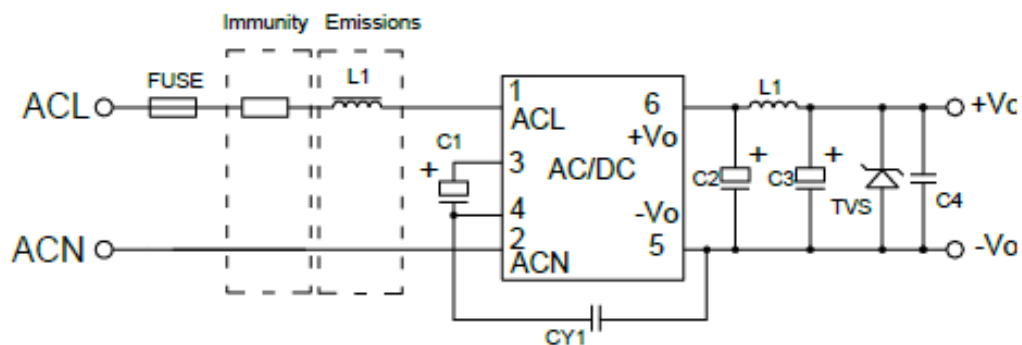
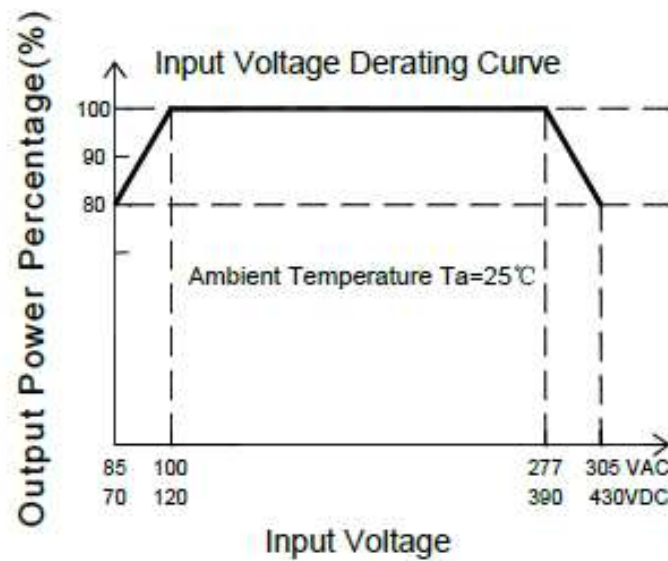
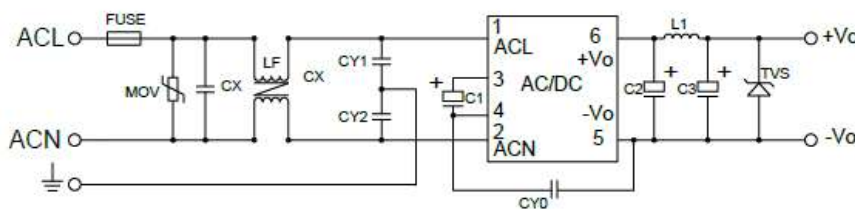


Fig.1

Input Voltage Derating Graph



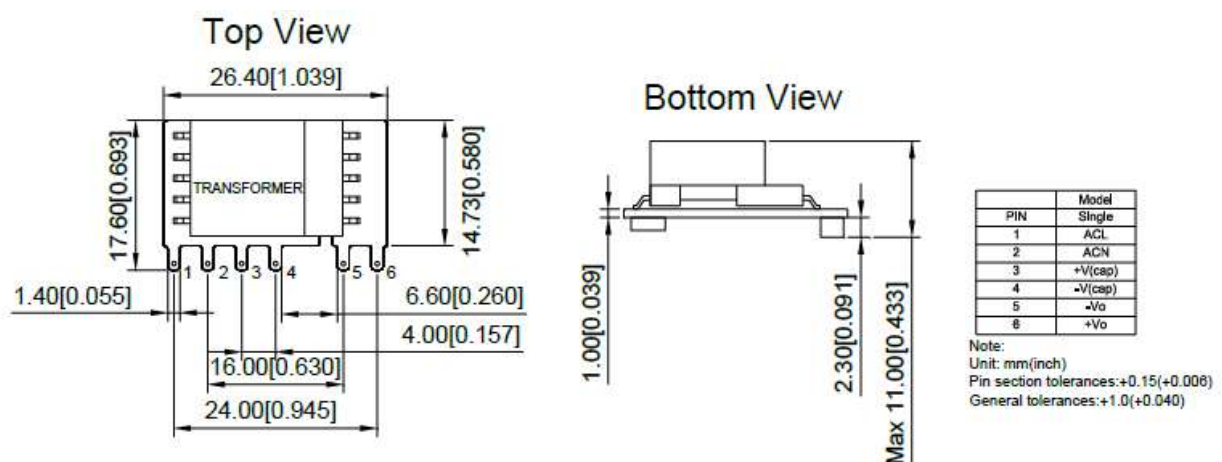
EMC Solution-Recommended Circuit



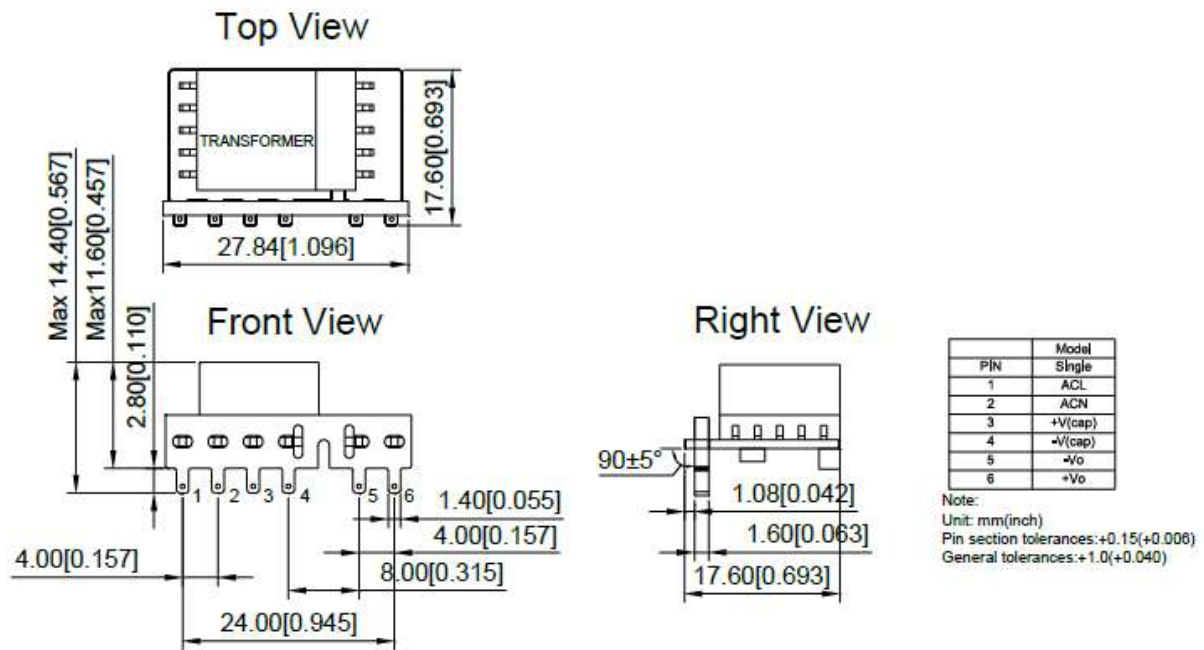
	3.3~24V	3.3~5V	9~15V	24V
FUSE	300V/2A	C1	15uF/450V	
MOV	14D561K	CY0	1000pF/400V	
LF	UA68.30mH/Min	C2	470uF/15V	470uF/25V
CX	0.1uF/310V	C3	470uF/10V	220uF/35V
CY1	470pF/250V	L1	2.2uH	
CY2				
	3.3~5V	9V	12V, 15V	24V
TVS	SMBJ7.0A	SMBJ12A	SMBJ20A	SMBJ30A

Fig.2

14GS5H1-SXX Dimensions

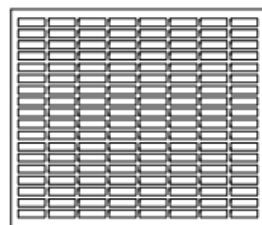


14GS5H1-SXXF Dimensions

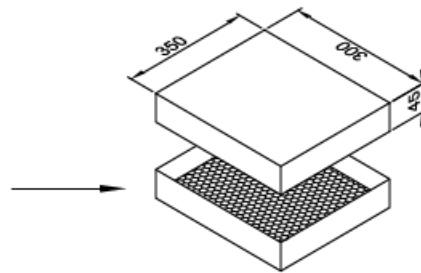


14GS5H1-SXX Package

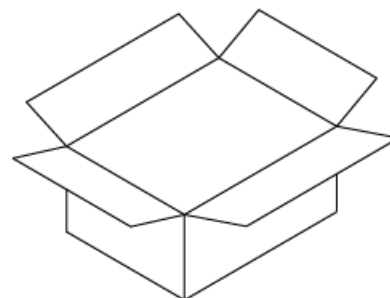
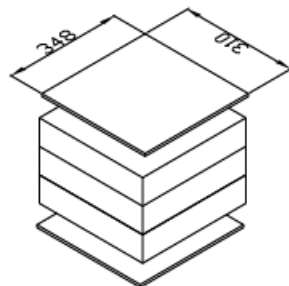
1.Weight:5.5grams/pcs 2.outer carton unit: 432pcs/box 3.Weight: 4.1kg per carton



144Pcs/BOX



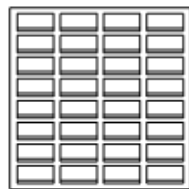
Box Size:350x300x45



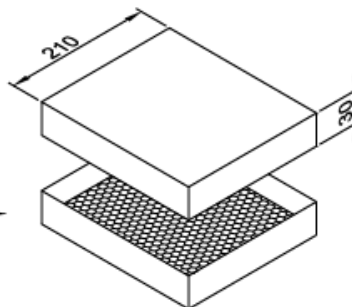
Outer carton: 375x320x160mm

14GS5H1-SXXF Package

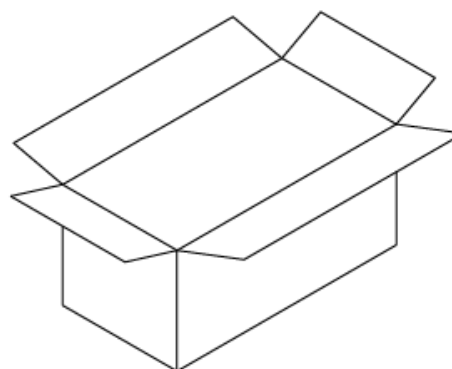
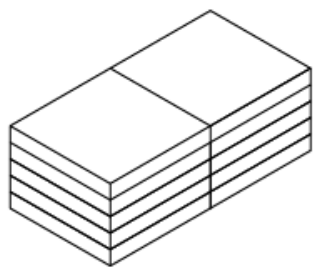
1.Weight:6.3grams/pcs 2.outer carton unit: 320pcs/box 3.Weight: 4.1kg per carton



32Pcs/BOX



Box Size:210x210x30



Outer carton: 460x240x220mm