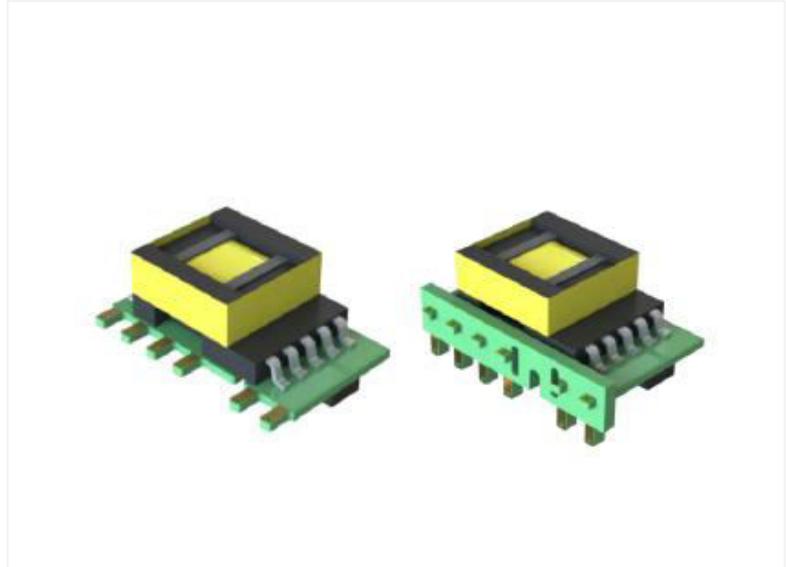


## Features

- Wide Input Voltage Range 85~305VAC 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

5W 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 (µF)
14GS5H1-S03(F)	3.3	1	3.3	69	2200
14GS5H1-S05(F)	5	1	5	76	1500
14GS5H1-S09(F)	9	0.56	5	77	680
14GS5H1-S12(F)	12	0.42	5	79	470
14GS5H1-S15(F)	15	0.34	5	79	330
14GS5H1-S24(F)	24	0.21	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

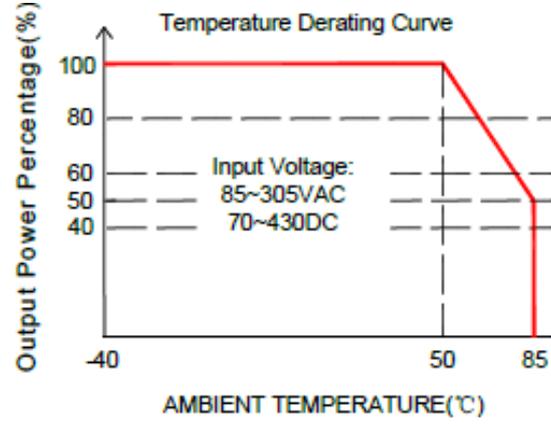
Environmental Characteristics	
Working Temp	-40 ~ +85°C (Please refer to derating graph)
Switching Frequency	Vi nom, Io nom 65 KHz
Isolation Voltage	3.6KVac/ 5mA/5Secs Vac 5KVdc/ 5mA/5Secs Vdc
Storage Temperature	Non Operational -40 ~ +105 °C
Relative Humidity	Vi nom, Io nom 95 % RH

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)

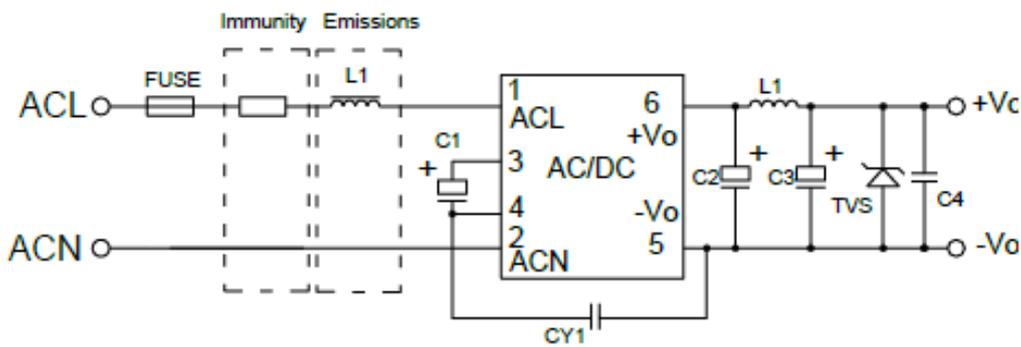
Dimensions & Weight	
	Measurements
14GS5H1-SXX	26.4 x 14.73 x 11.0 mm
14GS5H1-SXXF	27.84 x 11.60 x 17.60 mm

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

**Temperature derating curve**

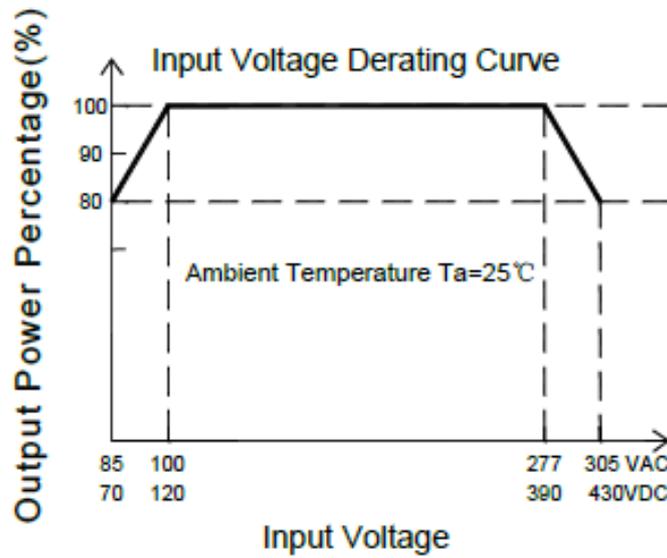


**Basic Application**

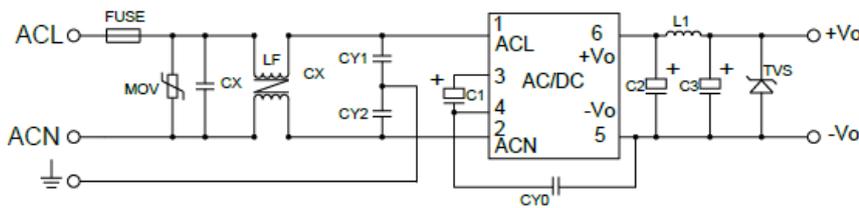


**Fig.1**

Input Voltage Derating Graph



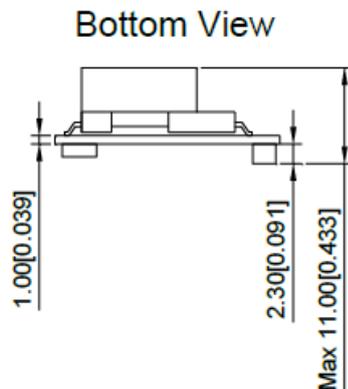
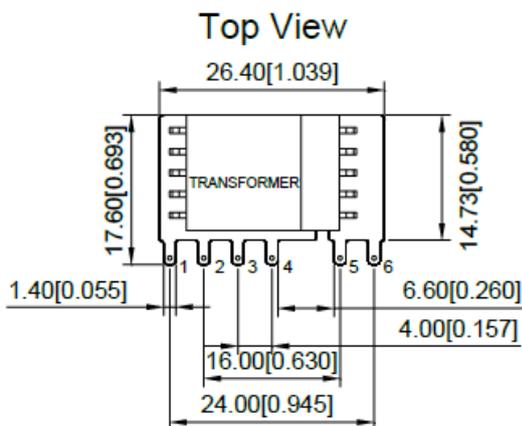
EMC Solution-Recommended Circuit



	3.3~24V	3.3~5V	9~15V	24V
FUSE	300V/2A			
MOV	14D561K			
LF	U68.30H1Mh			
CX	0.1uF/310V	430uF/35V	470uF/35V	330uF/35V
CY1	470pF/250V			
CY2				
L1			2.2uH	
TVS		3.3~5V	9V	12V, 15V, 24V
		SMBJ7.0A	SMBJ12A	SMBJ20A, SMBJ30A

Fig.2

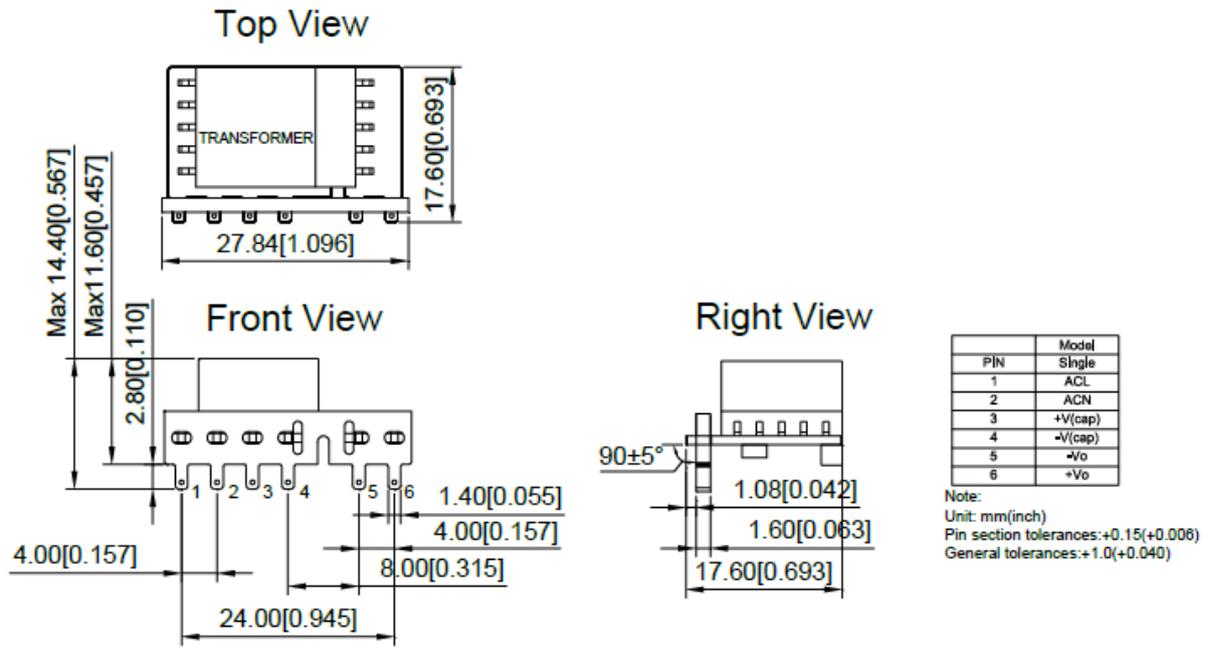
14GS5H1-SXX Dimensions



PIN	Model
1	ACL
2	ACN
3	+V(cap)
4	-V(cap)
5	-Vo
6	+Vo

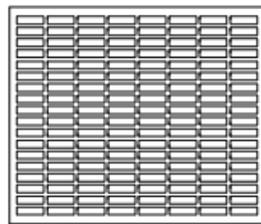
Note:  
Unit: mm(inch)  
Pin section tolerances: +0.15(+0.008)  
General tolerances: +1.0(+0.040)

14GS5H1-SXXF Dimensions

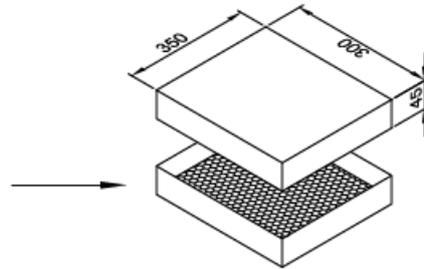


14GS5H1-SXX Package

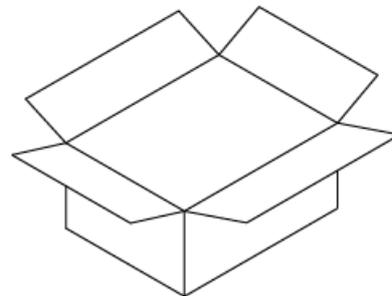
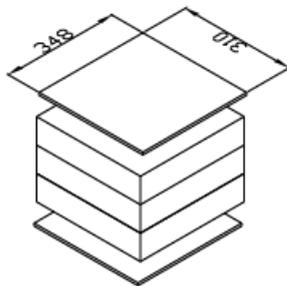
- 1.Weight:5.5grams/pcs    2.outer carton unit: 432pcs/box    3.Weight: 4.1kg per carton



144Pcs/BOX



Box Size:350x300x45



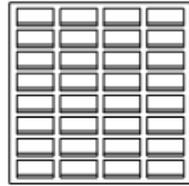
Outer carton: 375x320x160mm

14GS5H1-SXXF Package

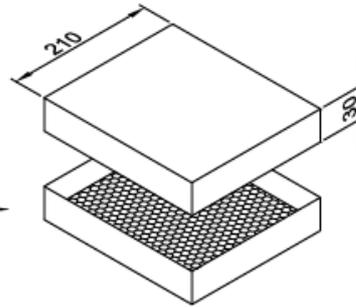
1.Weight:6.3grams/pcs

2.outer carton unit: 320pcs/box

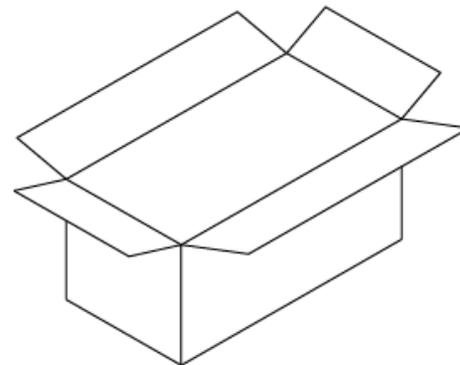
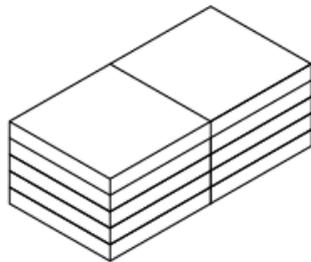
3.Weight: 4.1kg per carton



32Pcs/BOX



Box Size:210x210x30



Outer carton: 460x240x220mm