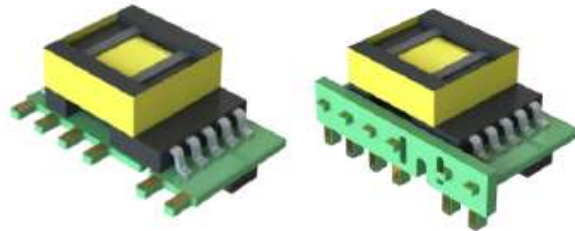


Features

- Wide Input Voltage Range
85~305V AC and
70~430V DC 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

41GS5H1-SXX(F) Series

5W Open Frame AC/DC Power Supply



The 41GS5H1-SXX Series is a consistent and high-performing Internal Power Supply (PSU). Designed for use in applications such as embedded electronics and control equipment. This series is supplied with a Pin Connection input connection and supports input voltages of 85~305V AC 47~63Hz.

Model Number Information

41GS5H1 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)
41GS5H1-S03(F)	3.3	1.00	3.3	69	2200
41GS5H1-S05(F)	5.0	1.00	5.0	76	1500
41GS5H1-S09(F)	9.0	0.56	5.0	77	680
41GS5H1-S12(F)	12	0.42	5.0	79	470
41GS5H1-S15(F)	15	0.34	5.0	79	330
41GS5H1-S24(F)	24	0.21	5.0	81	200

Input Specifications

Rated Input	100-277V AC
Voltage Range	85-305V AC 70-430V DC
Frequency Range	47-63Hz
Input Current	Vi:115V AC 0.20 A Vi:230V AC 0.10 A
Inrush Current	Vi:115V AC 20 A Vi:230V AC 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 80-150mVp-p

Protection

Overload	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	3.6kV AC/ 5mA / 5Secs V AC 5kV DC/ 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, IEC 62368-1 approved
Withstand Voltage	EN 55032, CLASS B (See Fig. 2 for recommended circuit)
Isolation Resistance	EN 55035 (See Fig. 2 for recommended circuit)

Dimensions & Weight

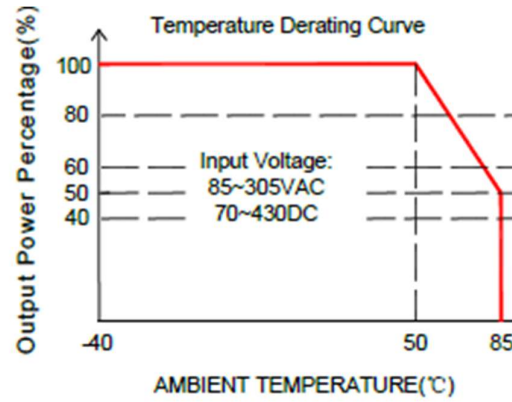
Measurements

41GS5H1-SXX	26.4 x 14.73 x 11.0mm
41GS5H1-SXXF	27.84 x 11.60 x 17.60mm

Packaging

	Outer carton	box size	weight
41GS5H1-SXX	375x320x160mm	350x300x45	5.5g/pcs
41GS5H1-SXXF	460x240x220mm	210x210x30	6.3g/pcs

Temperature derating curve



Basic Application

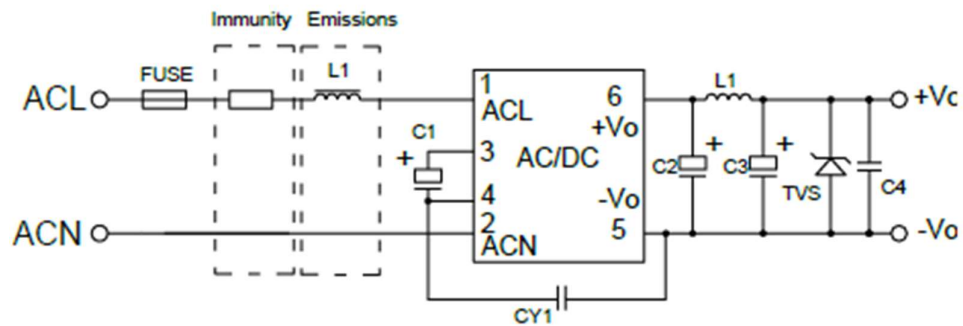
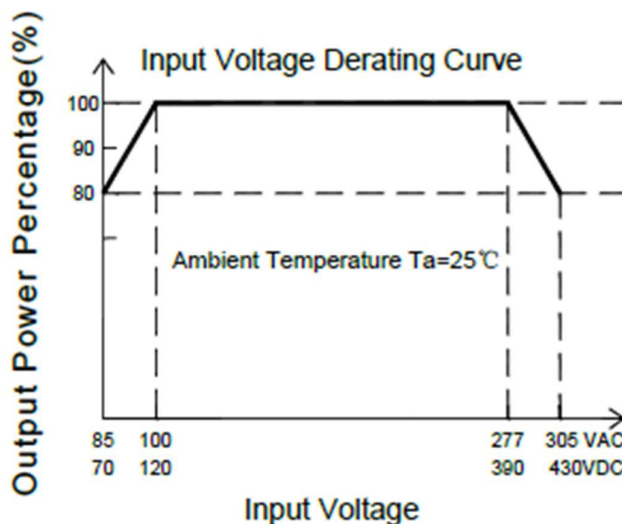
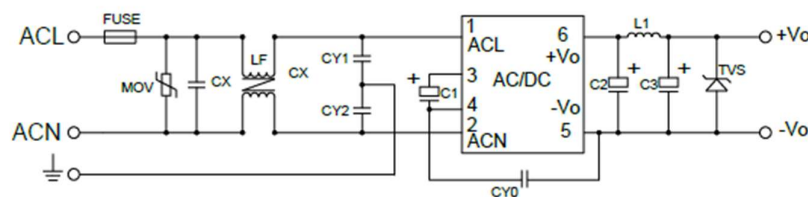


Fig.1

Input Voltage Derating Graph



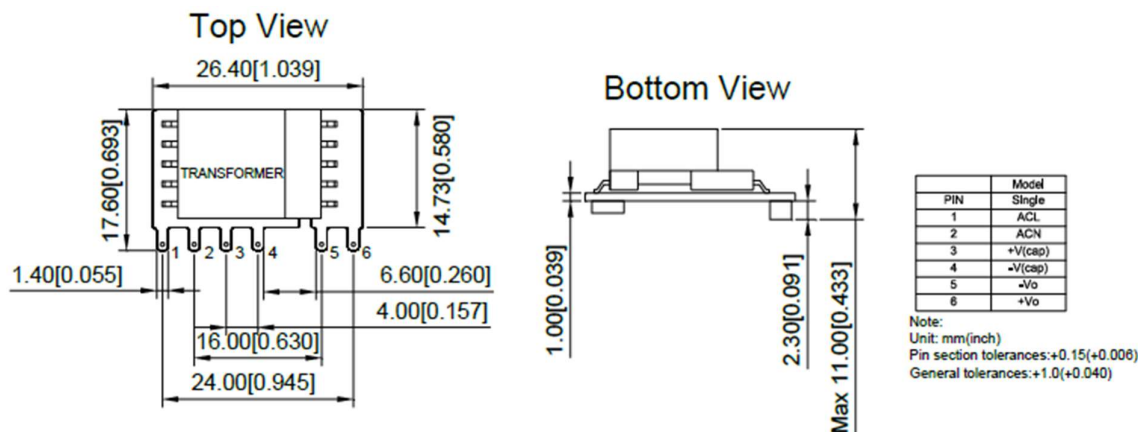
EMC Solution-Recommended Circuit



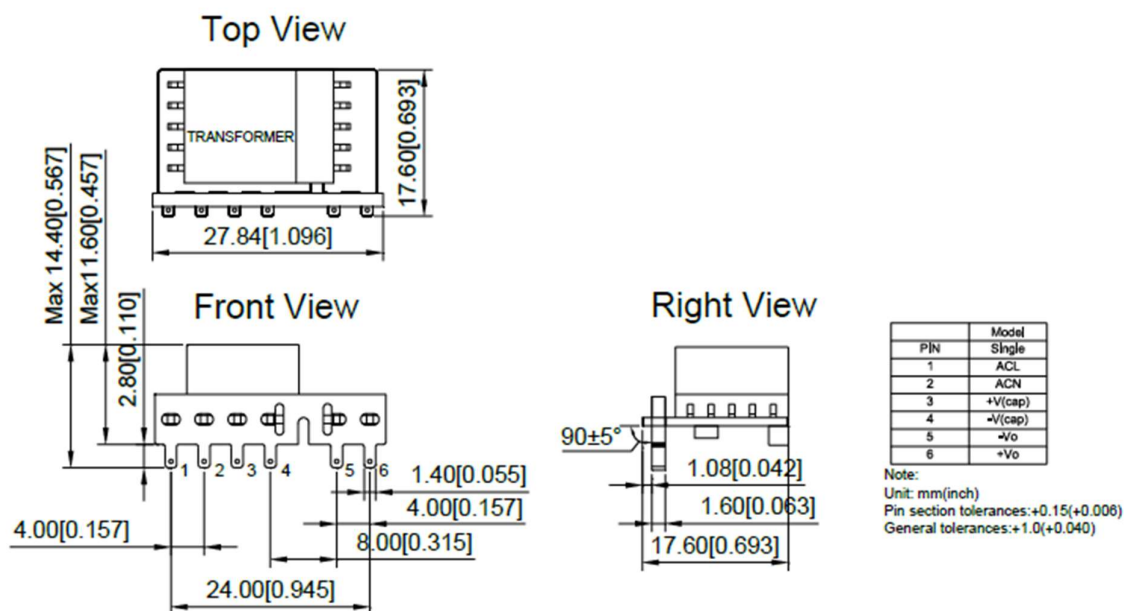
	3.3~24V		3.3~5V	9~15V	24V
FUSE	300V/2A	C1	15uF/450V		
MOV	14D561K	CY0	1000pF/400V		
LF	0.6830H±10%	C2	100uF/15V	470uF/50V	330uF/50V
CX	0.1uF/310V	C3	470uF/10V	220uF/35V	
CY1	470pF/250V	L1	2.2uH		
CY2					
TVS	3.3~5V SMBJ7.0A		9V SMBJ12A	12V, 15V SMBJ20A	24V SMBJ30A

Fig.2

41GS5H1-SXX Dimensions

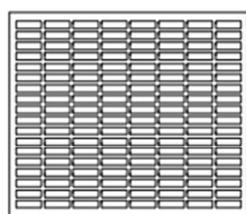


41GS5H1-SXXF Dimensions

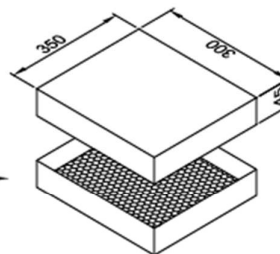


41GS5H1-SXX Package

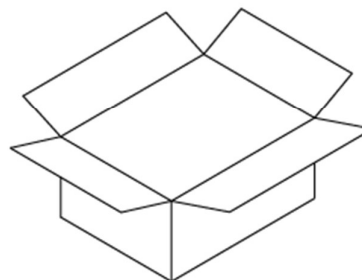
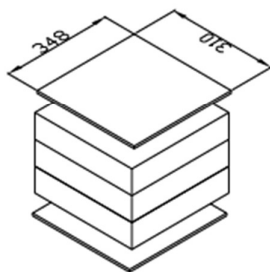
1.Weight:5.5grams/pcs 2.outer carton unit: 432pcs/box 3.Weight: 4.1kg per carton



144Pcs/BOX



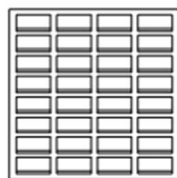
Box Size:350x300x45



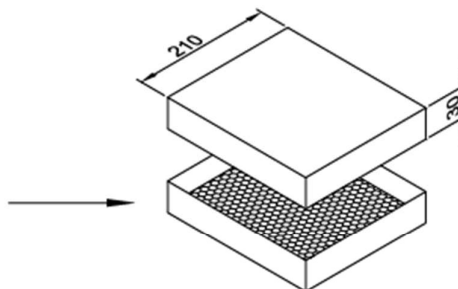
Outer carton: 375x320x160mm

41GS5H1-SXXF Package

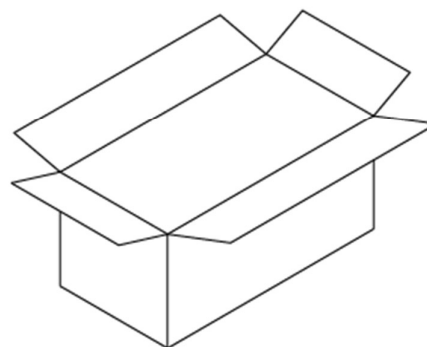
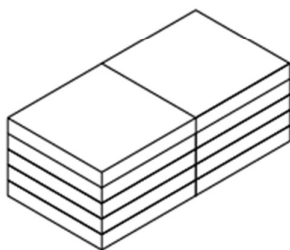
1.Weight:6.3grams/pcs 2.outer carton unit: 320pcs/box 3.Weight: 4.1kg per carton



32Pcs/BOX



Box Size:210x210x30



Outer carton: 460x240x220mm