

SIFA41 SERIES

40W Open Frame Power Supply for Industrial Equipment

- Wide Operating Voltage 80 to 264 VAC, 47 to 63Hz
- Internal EMI Filter
- Crowbar Mode Over Voltage Protection
- Dual and Triple Output
- Class I system
- **Operating Temperature: -20 to 70°C**

5 Year Warranty
Approvals:
Multi Output

Model Number	Output 1				Output 2				Output 3				Eff. (min.)	Max Output Power
	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax		
SIFA41-D00	+3.3V	0.5A	5A	±7%	+12V	0.2A	2A	±5%					74%	40W
SIFA41-D01	+5V	0.5A	5A	±5%	+12V	0.2A	2A	±5%					74%	40W
SIFA41-D02	+5V	0.5A	5A	±5%	+15V	0.15A	1.5A	±5%					74%	40W
SIFA41-D03	+5V	0.5A	5A	±5%	+24V	0.1A	1A	±5%					79%	40W
SIFA41-D09	+12V	0.3A	3A	±5%					-12V	0.1A	1A	±10%	80%	40W
SIFA41-D10	+15V	0.2A	2A	±5%					-15V	0.1A	1A	±10%	80%	40W
SIFA41-T00	+3.3V	0.5A	5A	±7%	+12V	0.2A	2A	±5%	-12V	0.08A	0.8A	±10%	74%	40W
SIFA41-T01	+5V	0.35A	3.5A	±5%	+12V	0.2A	2A	±5%	-5V	0.08A	0.8A	±10%	74%	40W
SIFA41-T02	+5V	0.35A	3.5A	±5%	+12V	0.2A	2A	±5%	-12V	0.1A	0.6A	±10%	74%	40W
SIFA41-T03	+5V	0.35A	3.5A	±5%	+15V	0.2A	2A	±5%	-15V	0.08A	0.8A	±10%	74%	40W
SIFA41-T04	+5V	0.35A	3.5A	±5%	+24V	0.1A	1A	±5%	-24V	0.5A	0.5A	±10%	82%	40W
SIFA41-T05	+5V	0.35A	3.5A	±5%	+24V	0.1A	1A	±5%	-12V	0.08A	0.8A	±10%	82%	40W
SIFA41-T06	+3.3V	0.5A	5A	±7%	+12V	0.2A	2A	±5%	-5V	0.08A	0.8A	±10%	74%	40W

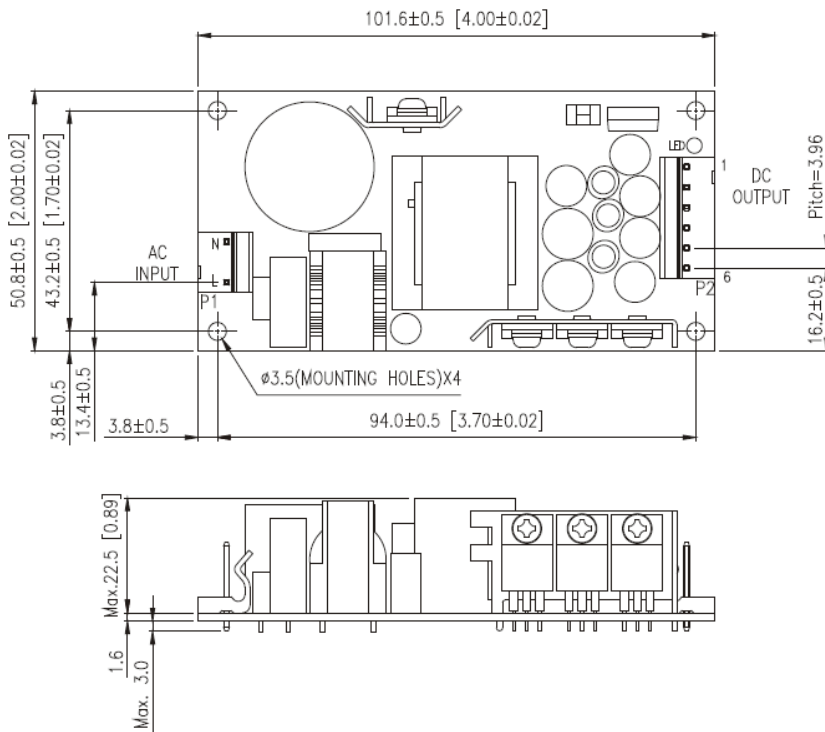
Electrical Characteristics

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Safety Approvals Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC
Operate Voltage Range	Derate linearly from 100% load at 90VAC to 80% load at 80VAC	80		275	VAC
Input Frequency	Sine wave	47		63	Hz
Output Power Range	See Rating Chart			40	W
Low Line Input Current	Full load, Vin=100VAC		1.0		A
High Line Input Current	Full load, Vin=240VAC		0.41		A
Low Line Input Inrush Current	Full load, 25°C, Cool start, Vin=100VAC			30	A
High Line Input Inrush Current	Full load, 25°C, Cool start, Vin=240VAC			72	A
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.75	mA
Efficiency	Full Load, Vin=230VAC	74		82	%
Line Regulation	Full Load, Vin=100~120VAC	0.5		1	%
Load Regulation	Vin=230VAC, 10~90% Load Change at Condition	5		10	%
Over Voltage Protection	Over Voltage Protection	112		132	%
Over Load Protection	Recovers automatically after fault condition is removed	110		150	%
Time of Transient Response	Io=Full Load to Half Load, Vin=110VAC			4	ms
Hold-Up Time	Full Load, Vin=100VAC			12	ms
Start Up Time	Full Load, Vin=100~240VAC			2	s
* Ripple & Noise (Peak to Peak)				1	%
Temperature Coefficient	Full Load, Vin=100~240VAC			±0.04	%/°C
Dielectric Withstanding Voltage(P-S)	Primary to Secondary			4242	VDC
Dielectric Withstanding Voltage(P-G)	Primary to PE			2121	VDC
EMC Emission	Compliance to EN55022(CISPR22)			B	Class

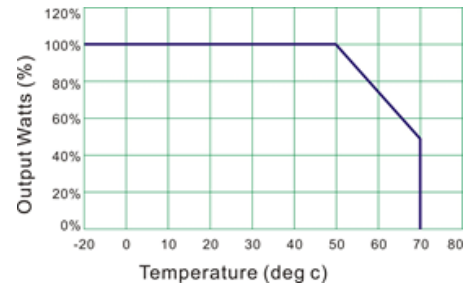
Environmental

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature	Derate linearly from 100% load at 50 to 50% load at 70	-20		70	°C
Storage Temperature	10~95% RH	-40		85	°C
Operating Humidity	non-condensing	0		95%	RH
Storage Humidity		0		95%	RH
Electro Static Discharge	Air Discharge, IEC61000-4-2			8	KV
Electro Static Discharge	Contact Discharge, IEC61000-4-2			4	KV
Mean Time Between Failure	Operation Temperature at 25 °C, Calculated per MIL-HDBK-217F	100K			h
Operating Altitude (Elevation)	All Condition			2000	m
Vibration	10~500Hz,10min./1cycle, 60min.each along X, Y, Z axes			5	G
Surge Voltage	Line-Neutral			1	KV
Surge Voltage	Line-PE & Neutral-PE			2	KV

Mechanical Diagram and Technical Chart



Derating Chart



1. Operating Temperature: -20 to 70°C
2. Derate linearly from 100% load at 50°C to 50% load at 70°C

MODEL	PIN	1	2	3	4	5	6
SIFA41-DXX		N/C	COM	COM	Vo1	Vo1	Vo2
SIFA41-D09		Vo3	COM	COM	Vo1	Vo1	N/C
SIFA41-D10		Vo3	COM	COM	Vo1	Vo1	N/C
SIFA41-TXX		Vo3	COM	COM	Vo1	Vo1	Vo2

Note:

1. Dimensions are shown in mm & inch
2. Weight: approx. 145g
3. Input connector mates with Molex housing 09-52-4034 and Molex 2478 series crimp terminal
4. Output connector mates with Molex housing 09-52-4064 and Molex 2478 series crimp terminal