

**SIDA25A SERIES**
**25W Desktop Power Supply for Industrial Equipment**


- Wide Operating Voltage 80 to 275 VAC, 47 to 63Hz
- IEC-320-C14 Input Inlet
- Optional Output Connector(See appendix)
- Single Output
- Efficiency level V (SIDA25A-S05~S11)
- **Operating Temperature: -20 ~ 70 °C**

**5 Year Warranty**

Approvals:

**Single Output**

Model Number	Output Voltage	Max. Output Current	Total Regulation	Max Output Power
SIDA25A-S02	05 ~ 06 VDC	3.30 ~ 2.75 A	±5%	16.5W
SIDA25A-S03	06 ~ 08 VDC	3.33 ~ 2.50 A	±5%	20W
SIDA25A-S04	08 ~ 11 VDC	2.75 ~ 2.00 A	±5%	22W
SIDA25A-S05	11 ~ 13 VDC	2.27 ~ 1.92 A	±5%	25W
SIDA25A-S06	13 ~ 16 VDC	1.92 ~ 1.56 A	±5%	25W
SIDA25A-S07	16 ~ 21 VDC	1.56 ~ 1.19 A	±5%	25W
SIDA25A-S08	21 ~ 27 VDC	1.19 ~ 0.92 A	±4%	25W
SIDA25A-S09	27 ~ 33 VDC	0.92 ~ 0.75 A	±3%	25W
SIDA25A-S10	33 ~ 40 VDC	0.75 ~ 0.62 A	±3%	25W
SIDA25A-S11	40 ~ 48 VDC	0.62 ~ 0.52 A	±3%	25W

SIDA25A-S02~S04 are in compliance with CEC IV.

SIDA25A-S05~S11 are in compliance with CEC V.

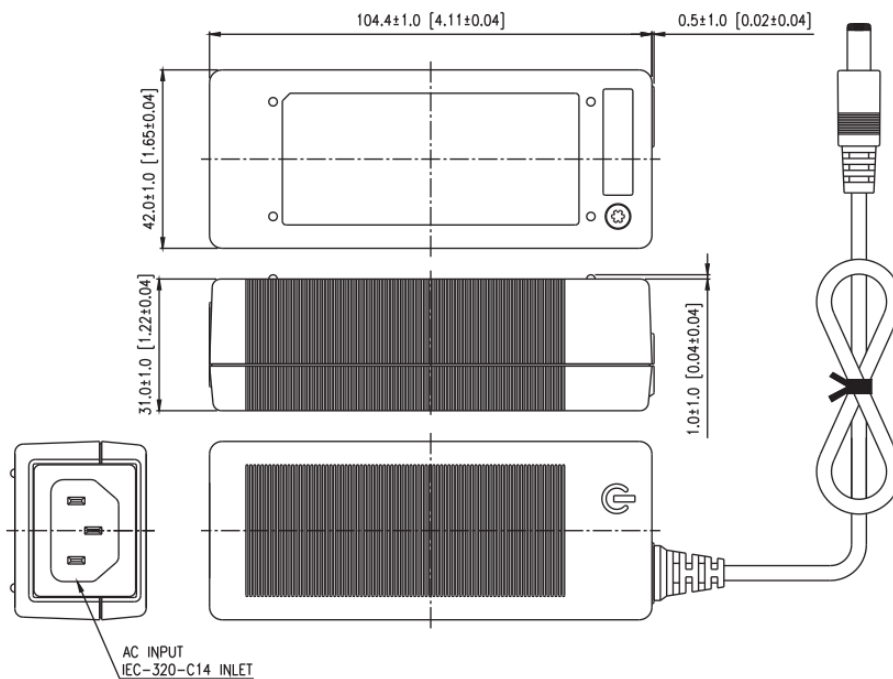
**Electrical Characteristics**

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			25	W
Low Line Input Current	Full load, Vin=100VAC		0.55		A
High Line Input Current	Full load, Vin=240VAC		0.22		A
Low Line Input Inrush Current	Full load, 25°C, Cool start, Vin=100VAC			25	A
High Line Input Inrush Current	Full load, 25°C, Cool start, Vin=240VAC			60	A
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.75	mA
Efficiency	Full Load, Vin=230VAC	75.3		83	%
Line Regulation	Full Load, Vin=100~120VAC	0.5		1	%
Load Regulation	Vin=230VAC, 10~90% Load Change at Condition	1		5	%
Over Load Protection	Nil. But, Output protected to short circuit conditions				
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 40 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 , Calculated per MIL-HDBK-217F	300K			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

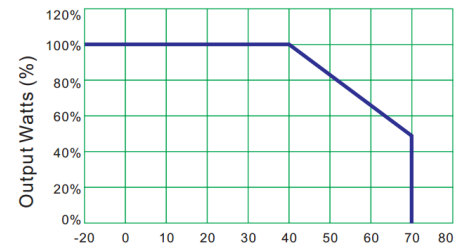
### Mechanical Diagram and Technical Chart



**Note:**

1. Dimensions are shown in mm.
2. Weight: 170gs approx.
3. Optional output connector.

**Derating Chart:**



1. Operating Temperature: -20 to 70°C
2. Derate linearly from 100% load at 40°C to 50% load at 70°C