

SIWA10 SERIES
10W Wall-Mount Power Supply for Industrial Equipment


- Wide Operating Voltage 90 to 264 VAC, 47 to 63Hz
- 2 Prong USA plug
- Optional Output Connector (See appendix)
- Single Output
- Class II system
- Energy Efficiency DoE VI
- **Operating Temperature: -20 ~ 70°C**

5 Year Warranty

Approvals:

Single Output

Product Number	Output Voltage	Max. Output Current	Total Regulation	Maximum Output Power
SIWA10-S02	5 ~ 5.99 VDC	1.60 ~ 1.33 A	±5%	8W
SIWA10-S03	6.5 ~ 8 VDC	1.23 ~ 1.00 A	±5%	8W
SIWA10-S04	8 ~ 11 VDC	1.25 ~ 0.90 A	±5%	10W
SIWA10-S05	11 ~ 13 VDC	0.90 ~ 0.76 A	±5%	10W
SIWA10-S06	13 ~ 16 VDC	0.76 ~ 0.62 A	±5%	10W
SIWA10-S07	16 ~ 21 VDC	0.62 ~ 0.47 A	±3%	10W
SIWA10-S08	21 ~ 27 VDC	0.47 ~ 0.37 A	±3%	10W
SIWA10-S09	27 ~ 33 VDC	0.37 ~ 0.30 A	±3%	10W
SIWA10-S10	33 ~ 40 VDC	0.30 ~ 0.25 A	±3%	10W
SIWA10-S11	40 ~ 48 VDC	0.25 ~ 0.20A	±3%	10W

SIWA10-S02~S05 are required to use AWG#20/4FT output cable
 SIWA10-S06~S10 are required to use AWG#24/4FT output cable
 The regulation and efficiency will be changed by modified output cable.

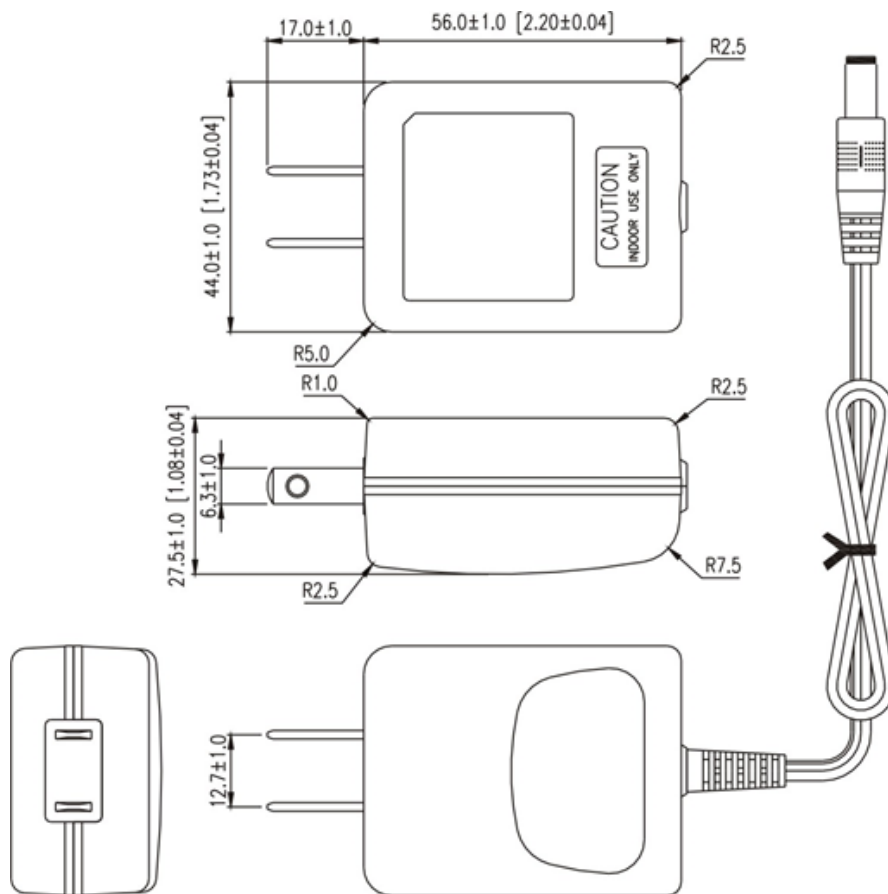
Electrical Characteristics

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Safety Approvals Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC
Operate Voltage Range		90		264	VAC
Input Frequency	Sine wave	47		63	Hz
Output Power Range	See Rating Chart			10	W
Low Line Input Current	Full load, Vin=100VAC		0.3		A
High Line Input Current	Full load, Vin=240VAC		0.12		A
Low Line Input Inrush Current	Full load, 25°C, Cool start, Vin=100VAC	25		35	A
High Line Input Inrush Current	Full load, 25°C, Cool start, Vin=240VAC	50		84	A
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.25	mA
Efficiency	Full Load, Vin=230VAC	77.2		85	%
Line Regulation	Full Load, Vin=100~120VAC	0.5		1	%
Load Regulation	Vin=230VAC, 10~90% Load Change at Condition	4		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			10	ms
Start Up Time	Full Load, Vin=100~240VAC			3	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
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	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

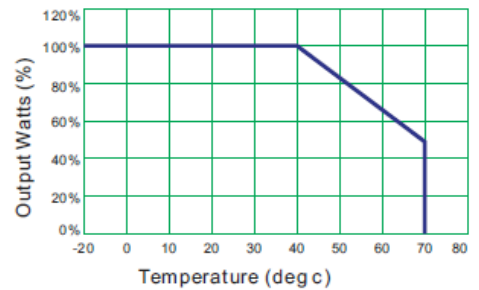
Mechanical Diagram & Technical Chart



Note:

1. Dimensions are shown in mm.
2. Weight: 90g approx.
3. Optional output connector.

Derating Curve :



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