

SIUA180 SERIES

180W U-Bracket Power Supply for Industrial Equipment



- Wide Operating Voltage 90 to 260 VAC, 47 to 63Hz
- Internal EMI Filter
- Active Power Factor Correction
- Crowbar Mode Over Voltage Protection
- Input Surge Current and Over Load Protection
- Single Output
- **Operating Temperature: -20 ~ 70 °C**

5 Year Warranty

Approvals:

Single Output

Model Number	Output Voltage	Max. Output Current	Total Regulation	Maximum Output Power
SIUA180-S05	12 VDC	14.58 A	±5%	175W
SIUA180-S08	24 VDC	7.50 A	±3%	180W
SIUA180-S10	36 VDC	5.00 A	±2%	180W
SIUA180-S11	48 VDC	3.75 A	±2%	180W

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		260	VAC
Input Frequency	Sine wave	47		63	Hz
Power Factor Correction	Io=Full load, Vin=240AC	0.95		1	
Output Power Range	See Rating Chart			180	W
Low Line Input Current	Full load, Vin=100VAC		2.3		A
High Line Input Current	Full load, Vin=240VAC		0.95		A
Low Line Input Inrush Current	Full load, 25°C, Cool start, Vin=100VAC			60	A
High Line Input Inrush Current	Full load, 25°C, Cool start, Vin=240VAC			144	A
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.75	mA
Efficiency	Full Load, Vin=230VAC			87	%
Line Regulation	Full Load, Vin=100~120VAC	0.5		1	%
Load Regulation	Vin=230VAC, 10~90% Load Change at Condition	2		5	%
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			20	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 , 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

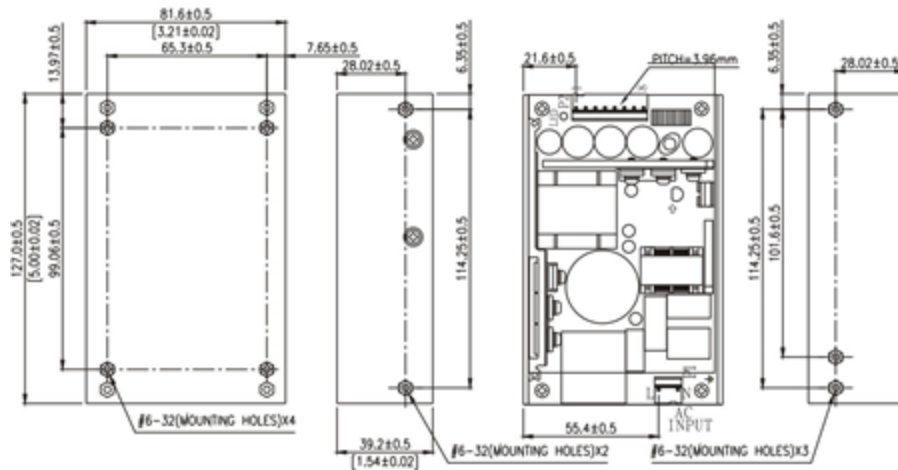
Mechanical Diagram and Technical Chart

PIN CHART

MODEL	PIN	1	2	3	4	5	6	7	8
SIUA180-S05		RTN	RTN	OUT	OUT	screw terminal			
SIUA180-SXX		RTN	RTN	RTN	RTN	OUT	OUT	OUT	OUT

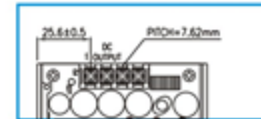
Note:

1. Dimensions are shown in inches or mm.
2. Weight: 521gs approx.
3. Input connector mates with Molex housing 09-52-4034 and Molex 2478 series crimp terminal
4. Output connector mates with Molex housing 09-52-4084 and Molex 2478 series crimp terminal

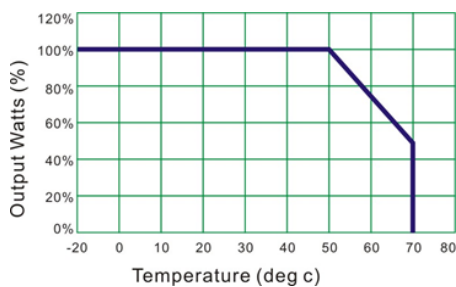


(SIUA180-S05 ONLY)

12V models are required to use screw terminal



DERATING CHART



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