

SIUA300 SERIES
300W 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
- Over Voltage Protection(Crowbar Design)
- Zero Voltage Switching (ZVS)
- Single Output
- Operating Temperature: -20 to 70°C

5 Year Warranty

Approvals:

Single Output

Model Number	Output Voltage	Max. Output Current	Total Regulation	Max- Output Power
SIUA300-S05	12 VDC	23 A	±5%	276W
SIUA300-S08	24 VDC	12.5 A	±3%	300W
SIUA300-S09	28~30 VDC	10.71~10.00 VDC	±3%	300W
SIUA300-S10	36 VDC	8.33 A	±3%	300W
SIUA300-S11	48 VDC	6.25 A	±2%	300W

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			300	W
Low Line Input Current	Full load, Vin=100VAC		3.9		A
High Line Input Current	Full load, Vin=240VAC		1.6		A
Low Line Input Inrush Current	Full load, 25°C, Cool start, Vin=100VAC			45	A
High Line Input Inrush Current	Full load, 25°C, Cool start, Vin=240VAC			108	A
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.75	mA
Efficiency	Full Load, Vin=230VAC	87		92	%
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			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
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

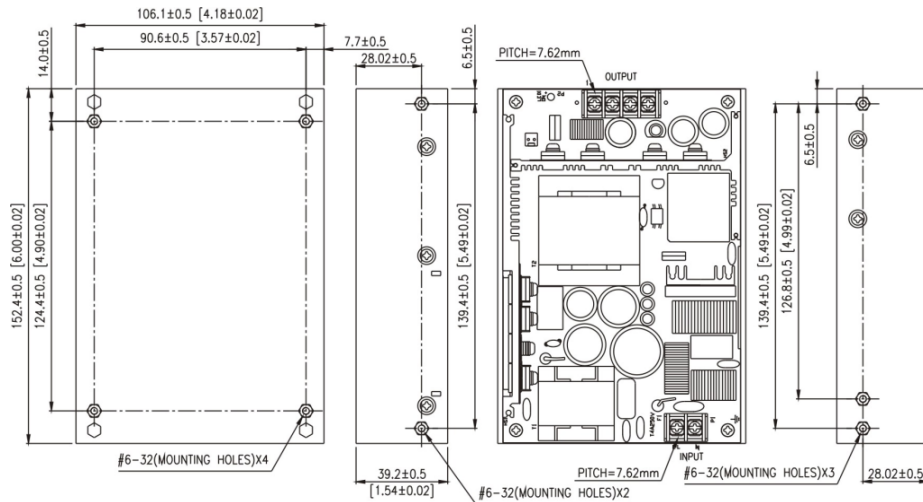
PIN CHART

MODEL	PIN	1	2	3	4
SIUA300-SXX	(4PIN)	RTN	RTN	OUT	OUT

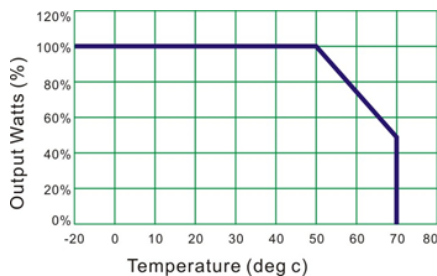
MODEL	PIN	1	2	3	4	5	6
SIUA300-SXX	(6PIN)	RTN	RTN	RTN	OUT	OUT	OUT

Note:

1. Dimensions are shown in mm.
2. Weight: 790gs approx.
3. Input connector mates with DINKLE#DT-2GN-B01W-02P and DINKLE#ESK750V-02P.
4. Output connector mates with DINKLE#DT-2GN-B01W-(04P or 06P) and DINKLE#ESK750V-(04P or 06P).



Derating Curve



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