

**SIUA100 SERIES**

**100W U-Bracket Power Supply for Industrial Equipment**

- Wide Operating Voltage, 90 to 260 VAC, 47 to 63 Hz
- Internal EMI filter
- Active Power Factor Correction
- Crowbar Mode Over Voltage Protection
- Single Output / Class I system
- **Operating Temperature: -20 to 70°C**

**5 Year Warranty**

Approvals:

**Single Output**

PART NO.	Setting Voltage Range (Factory setting, can't be adjusted)		Output Current (Based on the output volt.)		Maximum Output Power (W)	Ripple & Noise (mVp-p)	Total Reg. (%)	Typ. Efficien cy (%)	Typ. No Load Consum ption (W)	Hold- Up Time (ms)	Protect ion Mode
	min	max	min	max							
	(VDC)	(VDC)	(A)	(A)							
SIUA100-S01	3.0	5.0	10.80	18.00	54	50	±7	70	5	16	Hiccup
SIUA100-S02	5.0	6.0	11.66	14.00	70	60	±5	74	5	16	Hiccup
SIUA100-S03	6.0	9.0	8.88	13.33	80	90	±5	78	5	16	Hiccup
SIUA100-S04	9.0	11.0	9.09	11.11	100	110	±5	78	5	16	Hiccup
SIUA100-S05	11.0	13.0	7.69	9.09	100	130	±3	80	5	16	Hiccup
SIUA100-S06	13.0	16.0	6.25	7.69	100	160	±3	80	5	16	Hiccup
SIUA100-S07	16.0	21.0	4.76	6.25	100	240	±3	80	5	16	Hiccup
SIUA100-S08	21.0	27.0	3.70	4.76	100	300	±2	80	5	16	Hiccup
SIUA100-S09	27.0	33.0	3.03	3.70	100	300	±2	80	5	16	Hiccup
SIUA100-S10	33.0	40.0	2.50	3.03	100	300	±2	80	5	16	Hiccup
SIUA100-S11	40.0	50.0	2.00	2.50	100	300	±2	82	5	16	Hiccup

**Electrical Characteristics**

Characteristic	Condition	Min.	Typ.	Max.	Unit
Safety Approval Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC
Input Operate Voltage Range	Detail to see Fig.1	90		260	VAC
Input Frequency	Sine wave	47		63	Hz
Power Factor Correction	Io=Full load, Vin=240VAC	0.95		1	
Output Power Range	See Rating Chart			100	W
Low Line Input Current	Full Load, Vin=100VAC		2.0		A
High Line Input Current	Full Load, Vin=240VAC		0.83		A
Low Line Input Inrush Current	Full Load, 25°C, Cool start, Vin=100VAC			50	A
High Line Input Inrush Current	Full Load, 25°C, Cool start, Vin=240VAC			120	A
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.75	mA
Efficiency	Full Load, Vin=230VAC, Detail to see Rating Chart		See Rating Chart		
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	Full Load, Vin=110VAC			4	ms
Hold-Up Time	Full Load, Vin=100VAC		See Rating Chart		
Start-up time	Full Load, Vin=100~240VAC			3	s
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

