

SIUA60 SERIES



63W U-Bracket Power Supply for Industrial Equipment

- Wide Input Voltage 81 to 280 VAC, 47 to 400 Hz or 90 to 420VDC
- Single to Quad Output
- DINKLE 3 pin input connector
- Output Voltage Available from 3VDC through 48VDC
- Input connector mates with screw terminal (DINKLE#ESK750V-03P)(10-24AWG)
- Output connector mates with screw terminal (DINKLE#ESK750V-05P)(10-24AWG)
- Class I Insulation
- Size: 3.2"x5"x1.38"
- Power Fail Detect (Optional)

3 Year Warranty

Approvals:    

Single Output

Product Number	Output Voltage	Output Current	Total Regulation	Maximum Output Power
SIUA60-S01	3 - 5 VDC	16.66 - 10.0 A	5%	50W
SIUA60-S02	5 - 6 VDC	11.0 - 9.16 A	5%	55W
SIUA60-S03	6 - 8 VDC	10.0 - 7.50 A	4%	60W
SIUA60-S04	8 - 11 VDC	7.87 - 5.72 A	3%	63W
SIUA60-S05	11 - 13 VDC	5.72 - 4.84 A	3%	63W
SIUA60-S05-1	11 - 13 VDC	4.09 - 3.46 A	3%	45W
SIUA60-S06	13 - 16 VDC	4.84 - 3.93 A	3%	63W
SIUA60-S07	16 - 21 VDC	3.93 - 3.00 A	3%	63W
SIUA60-S08	21 - 27 VDC	3.00 - 2.33 A	2%	63W
SIUA60-S09	27 - 33 VDC	2.33 - 1.90 A	2%	63W
SIUA60-S10	33 - 40 VDC	1.90 - 1.57 A	2%	63W
SIUA60-S11	40 - 48 VDC	1.57 - 1.31 A	2%	63W

Multi Output

Product Number	Output #1				Output #2				Output #3				Output #4				Maximum Output Power
	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	
SIUA60-D00	+3.3V	1.4A	7A	7%	+12V	0.6A	3A	5%									59.1W
SIUA60-D01	+5V	0.7A	7A	5%	+12V	0.3A	3A	5%									63W
SIUA60-D02	+5V	0.7A	7A	5%	+15V	0.3A	3A	5%									63W
SIUA60-D03	+5V	0.7A	7A	5%	+24V	0.4A	2A	5%									63W
SIUA60-D04	+3.3V	1.4A	7A	7%	+5V	0.5A	5A	5%									48.1W
SIUA60-D15	+5V	0.7A	7A	5%					-24V	0.2A	2A	5%					63W
SIUA60-T00	+3.3V	1.2A	6A	7%	+12V	0.6A	3A	5%	-12V	0A	0.8A	5%					63W
SIUA60-T00-1	+3.3V	1.2A	6A	7%	+12V	0.6A	3A	5%	+12V	0A	0.8A	5%					63W
SIUA60-T01	+5V	0.6A	6A	5%	+12V	0.3A	3A	5%	-5V	0A	0.8A	5%					63W
SIUA60-T01-1	+5V	0.6A	6A	5%	+12V	0.3A	3A	5%	+5V	0A	0.8A	5%					63W
SIUA60-T02	+5V	0.6A	6A	5%	+12V	0.6A	3A	5%	-12V	0A	0.8A	5%					63W
SIUA60-T02-1	+5V	0.6A	6A	5%	+12V	0.6A	3A	5%	+12V	0A	0.8A	5%					63W
SIUA60-T03	+5V	0.6A	6A	5%	+15V	0.3A	3A	5%	-15V	0A	0.8A	5%					63W
SIUA60-T03-1	+5V	0.6A	6A	5%	+15V	0.3A	3A	5%	+15V	0A	0.8A	5%					63W
SIUA60-T05	+5V	1.2A	6A	5%	+24V	0.4A	2A	5%	-12V	0A	0.8A	5%					63W
SIUA60-T05-1	+5V	1.2A	6A	5%	+24V	0.4A	2A	5%	+12V	0A	0.8A	5%					63W
SIUA60-T06	+3.3V	1.2A	6A	7%	+12V	0.6A	3A	5%	-5V	0A	0.8A	5%					59.8W
SIUA60-T06-1	+3.3V	1.2A	6A	7%	+12V	0.6A	3A	5%	+5V	0A	0.8A	5%					59.8W
SIUA60-T08	+3.3V	0.5A	5A	7%	+5V	0.5A	5A	5%	-12V	0A	1A	5%					53.5W
SIUA60-T08-1	+3.3V	0.5A	5A	7%	+5V	0.5A	5A	5%	+12V	0A	1A	5%					53.5W
SIUA60-Q00	+3.3V	1.2A	6A	7%	+12V	0.6A	3A	5%	-12V	0A	0.8A	5%	-5V	0A	0.8A	5%	63W
SIUA60-Q00-1	+3.3V	1.2A	6A	7%	+12V	0.6A	3A	5%	-12V	0A	0.8A	5%	+5V	0A	0.8A	5%	63W
SIUA60-Q00-2	+3.3V	1.2A	6A	7%	+12V	0.6A	3A	5%	+12V	0A	0.8A	5%	-5V	0A	0.8A	5%	63W
SIUA60-Q00-3	+3.3V	1.2A	6A	7%	+12V	0.6A	3A	5%	+12V	0A	0.8A	5%	+5V	0A	0.8A	5%	63W
SIUA60-Q01	+5V	0.6A	6A	5%	+12V	0.3A	3A	5%	-12V	0A	0.8A	5%	-5V	0A	0.8A	5%	63W
SIUA60-Q01-1	+5V	0.6A	6A	5%	+12V	0.3A	3A	5%	-12V	0A	0.8A	5%	+5V	0A	0.8A	5%	63W
SIUA60-Q01-2	+5V	0.6A	6A	5%	+12V	0.3A	3A	5%	+12V	0A	0.8A	5%	-5V	0A	0.8A	5%	63W
SIUA60-Q01-3	+5V	0.6A	6A	5%	+12V	0.3A	3A	5%	+12V	0A	0.8A	5%	+5V	0A	0.8A	5%	63W
SIUA60-Q02	+5V	1.2A	6A	5%	+12V	0.6A	3A	5%	-12V	0A	0.8A	5%	-12V	0A	0.8A	5%	63W
SIUA60-Q02-1	+5V	1.2A	6A	5%	+12V	0.6A	3A	5%	-12V	0A	0.8A	5%	+12V	0A	0.8A	5%	63W

SIUA60-Q02-2	+5V	1.2A	6A	5%	+12V	0.6A	3A	5%	+12V	0A	0.8A	5%	-12V	0A	0.8A	5%	63W
SIUA60-Q02-3	+5V	1.2A	6A	5%	+12V	0.6A	3A	5%	+12V	0A	0.8A	5%	+12V	0A	0.8A	5%	63W
SIUA60-Q03	+5V	1.2A	6A	5%	+12V	0.6A	3A	5%	-12V	0A	0.8A	5%	-24V	0A	0.8A	5%	63W
SIUA60-Q03-1	+5V	1.2A	6A	5%	+12V	0.6A	3A	5%	-12V	0A	0.8A	5%	+24V	0A	0.8A	5%	63W
SIUA60-Q03-2	+5V	1.2A	6A	5%	+12V	0.6A	3A	5%	+12V	0A	0.8A	5%	-24V	0A	0.8A	5%	63W
SIUA60-Q03-3	+5V	1.2A	6A	5%	+12V	0.6A	3A	5%	+12V	0A	0.8A	5%	+24V	0A	0.8A	5%	63W
SIUA60-Q04	+5V	0.6A	6A	5%	+15V	0.3A	3A	5%	-15V	0A	0.8A	5%	-5V	0A	0.8A	5%	63W
SIUA60-Q04-1	+5V	0.6A	6A	5%	+15V	0.3A	3A	5%	-15V	0A	0.8A	5%	+5V	0A	0.8A	5%	63W
SIUA60-Q04-2	+5V	0.6A	6A	5%	+15V	0.3A	3A	5%	+15V	0A	0.8A	5%	-5V	0A	0.8A	5%	63W
SIUA60-Q04-3	+5V	0.6A	6A	5%	+15V	0.3A	3A	5%	+15V	0A	0.8A	5%	+5V	0A	0.8A	5%	63W

Electrical Characteristics																	
Parameter	Test Conditions								Min.	Typ.	Max.	Unit					
Input Voltage	Universal Input Voltage								90		264	VAC					
									106		350	VAC					
	Operating Voltage								81		280	VAC					
									90		420	VAC					
Input Frequency									47		400	Hz					
Output Power Range	Vin=Operating Voltage								0		63	W					
Input Current (Low Line)	Io=Full load, Vin=115VAC										1.6	A					
Input Current (High Line)	Io=Full load, Vin=230VAC										0.8	A					
Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC									12	15	A					
High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC									26	30	A					
Efficiency	Io=Full load, Vin=230VAC								70	80	88	%					
Line Regulation	Io=Full load									0.5	1	%					
Load Regulation	Vin=230VAC									3	7	%					
Over Voltage Protection									112		132	%					
Over Current Protection									110		150	%					
Transient Response	Io=Full load to Half Load, Vin=500VAC										5	mS					
Hold-Up Time	Io=Full load, Vin=150VAC								16			mS					
Start Up Time	Io=Full load, Vin=500VAC								0.3	1	2	S					
* Ripple & Noise (Peak to Peak)	Full load, Vin=90VAC									0.5	1	%					
Safety Ground Leakage Current	Io=Full load, Vin=240VAC									0.4	0.45	mA					
Temperature Coefficient	All output								-0.05		0.05	%/°C					

* **Note:** The Ripple & Noise which is under 3.3VDC at 2% max

Conditions					
Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		-20	50	70	°C
Storage Temperature		-40		85	°C
Relative Humidity		5		95	%
Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		0.1M			Hrs
De-rate linearly from 100% load at 50°C to 50% load at 70°C					

Approvals and Compliances																	
Parameter	Test Conditions								Min.	Unit							
Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary								4242	VDC							
Dielectric Withstanding Voltage for Primary to Ground	Primary to ground								2121	VDC							
Isolation Resistance	Test Voltage=500VDC								50	MΩ							
EMI requirements for CISPR-22	Vin=220VAC								B	CLASS							
EMI requirements for FCC PART-15	Vin=110VAC								B	CLASS							

Mechanical and PIN Out

PIN CHART

MODEL \ PIN	1	2	3	4	5
SIUA60-SXX	OUT	OUT	OUT	RTN	RTN
SIUA60-DXX	Vo2	Vo1	COM	N/C	N/C
SIUA60-D15	N/C	Vo1	COM	Vo3	N/C
SIUA60-TXX	Vo2	Vo1	COM	Vo3	N/C
SIUA60-QXX	Vo2	Vo1	COM	Vo3	Vo4

PFD (Optional)

Other Connector	
1	2
OUT	RTN
OUT	RTN
OUT	RTN
OUT	RTN
OUT	RTN

Note:

1. Dimensions are shown in mm.
2. Weight: 425gs approx.
3. Input connector mates with screw terminal (DINKLE#ESK750V-03P)(10-24AWG)
4. Output connector mates with screw terminal (DINKLE#ESK750V-05P)(10-24AWG)

Note: Vo1:Output#1 Vo2:Output#2 Vo3:Output#3 Vo4:Output#4

