

**STE A61 SERIES**



**63W Enclosed Power Supply for I.T. Equipment**

- Wide Operating Voltage 90 to 264 VAC, 47 to 63Hz
- Single to Quad Output
- Class I
- Crowbar Mode Over Voltage Protection
- Input Surge Current, Over Voltage and Over Load Protection

**3 Year Warranty**

Approvals:

**Single Output**

Product Number	Output Voltage	Output Current	Total Regulation	Maximum Output Power	Pno (max.)
STE A61-S01	3 - 5 VDC	16.6 - 10.0 A	5%	50W	5W
STE A61-S02	5 - 6 VDC	11.0 - 9.16 A	5%	55W	5W
STE A61-S03	6 - 8 VDC	10.0 - 7.50 A	4%	60W	5W
STE A61-S04	8 - 11 VDC	7.87 - 5.72 A	3%	63W	5W
STE A61-S05	11 - 13 VDC	5.72 - 4.84 A	3%	63W	5W
STE A61-S06	13 - 16 VDC	4.84 - 3.93 A	3%	63W	5W
STE A61-S07	16 - 21 VDC	3.93 - 3.00 A	3%	63W	5W
STE A61-S08	21 - 27 VDC	3.00 - 2.33 A	2%	63W	5W
STE A61-S09	27 - 33 VDC	2.33 - 1.90 A	2%	63W	5W
STE A61-S10	33 - 40 VDC	1.90 - 1.57 A	2%	63W	5W
STE A61-S11	40 - 50 VDC	1.57 - 1.26 A	2%	63W	5W

**Multi Output**

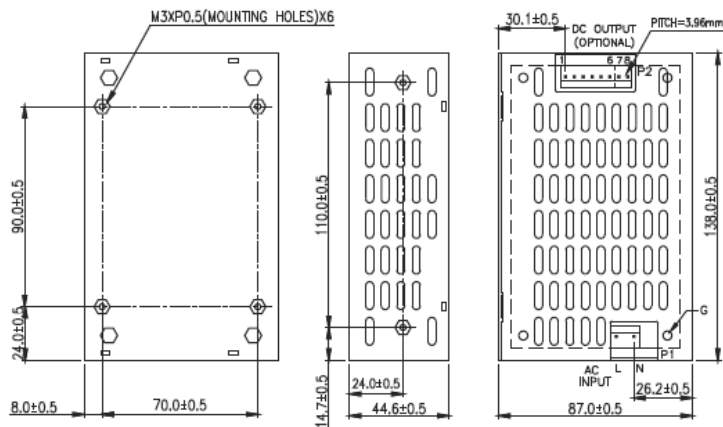
Product Number	Output #1				Output #2				Output #3				Output #4				Maximum Output Power	Pno (max.)
	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax		
STE A61-D00	+3.3V	1.4A	7A	7%	+12V	0.6A	3A	5%									59.1W	5.5W
STE A61-D01	+5V	0.7A	7A	5%	+12V	0.3A	3A	5%									63W	5.5W
STE A61-D02	+5V	0.7A	7A	5%	+15V	0.3A	3A	5%									63W	5.5W
STE A61-D03	+5V	0.7A	7A	5%	+24V	0.4A	2A	5%									63W	5.5W
STE A61-D04	+3.3V	1.4A	7A	7%	+5V	0.5A	5A	5%									48.1W	5.5W
STE A61-D15	+5V	0.7A	7A	5%	-24V	0.2A	2A	5%									63W	5.5W
STE A61-D18	+3.3V	0.5A	5A	7%	+48V	0.1A	1.25A	5%									63W	5.5W
STE A61-D19	+5V	0.1A	5A	5%	+28V	0.2A	2A	5%									63W	5.5W
STE A61-D20	+5V	0.5A	5A	5%	+35V	0.1A	1.5A	5%									63W	5.5W
STE A61-D21	+5V	0.5A	5A	5%	+36V	0.1A	1.5A	5%									63W	5.5W
STE A61-T00	+3.3V	1.2A	6A	7%	+12V	0.6A	3A	5%	-12V	0A	0.8A	5%					63W	5.5W
STE A61-T00-1	+3.3V	1.2A	6A	7%	+12V	0.6A	3A	5%	+12V	0A	0.8A	5%					63W	5.5W
STE A61-T01	+5V	0.6A	6A	5%	+12V	0.3A	3A	5%	-5V	0A	0.8A	5%					63W	5.5W
STE A61-T01-1	+5V	0.6A	6A	5%	+12V	0.3A	3A	5%	+5V	0A	0.8A	5%					63W	5.5W
STE A61-T02	+5V	0.6A	6A	5%	+12V	0.6A	3A	5%	-12V	0A	0.8A	5%					63W	5.5W
STE A61-T02-1	+5V	0.6A	6A	5%	+12V	0.6A	3A	5%	+12V	0A	0.8A	5%					63W	5.5W
STE A61-T03	+5V	0.6A	6A	5%	+15V	0.3A	3A	5%	-15V	0A	0.8A	5%					63W	5.5W
STE A61-T03-1	+5V	0.6A	6A	5%	+15V	0.3A	3A	5%	+15V	0A	0.8A	5%					63W	5.5W
STE A61-T04	+5V	1.2A	6A	5%	+24V	0.4A	2A	5%	-24V	0A	0.5A	5%					63W	5.5W
STE A61-T04-1	+5V	1.2A	6A	5%	+24V	0.4A	2A	5%	+24V	0A	0.5A	5%					63W	5.5W
STE A61-T05	+5V	1.2A	6A	5%	+24V	0.4A	2A	5%	-12V	0A	0.8A	5%					63W	5.5W
STE A61-T05-1	+5V	1.2A	6A	5%	+24V	0.4A	2A	5%	+12V	0A	0.8A	5%					63W	5.5W
STE A61-T06	+3.3V	1.2A	6A	7%	+12V	0.6A	3A	5%	-5V	0A	0.8A	5%					59.8W	5.5W
STE A61-T06-1	+3.3V	1.2A	6A	7%	+12V	0.6A	3A	5%	+5V	0A	0.8A	5%					59.8W	5.5W
STE A61-T07	+5V	0.6A	6A	5%	+10V	0.2A	2A	5%	-10V	0A	1A	5%					60W	5.5W
STE A61-T07-1	+5V	0.6A	6A	5%	+10V	0.2A	2A	5%	+10V	0A	1A	5%					60W	5.5W
STE A61-T08	+3.3V	0.5A	5A	7%	+5V	0.5A	5A	5%	-12V	0A	1A	5%					53.5W	5.5W
STE A61-T08-1	+3.3V	0.5A	5A	7%	+5V	0.5A	5A	5%	+12V	0A	1A	5%					53.5W	5.5W
STE A61-Q00	+3.3V	1.2A	6A	7%	+12V	0.6A	3A	5%	-12V	0A	0.8A	5%	-5V	0A	0.8A	5%	63W	5.5W
STE A61-Q00-1	+3.3V	1.2A	6A	7%	+12V	0.6A	3A	5%	-12V	0A	0.8A	5%	+5V	0A	0.8A	5%	63W	5.5W
STE A61-Q00-2	+3.3V	1.2A	6A	7%	+12V	0.6A	3A	5%	+12V	0A	0.8A	5%	-5V	0A	0.8A	5%	63W	5.5W
STE A61-Q00-3	+3.3V	1.2A	6A	7%	+12V	0.6A	3A	5%	+12V	0A	0.8A	5%	+5V	0A	0.8A	5%	63W	5.5W
STE A61-Q01	+5V	0.6A	6A	5%	+12V	0.3A	3A	5%	-12V	0A	0.8A	5%	-5V	0A	0.8A	5%	63W	5.5W
STE A61-Q01-1	+5V	0.6A	6A	5%	+12V	0.3A	3A	5%	-12V	0A	0.8A	5%	+5V	0A	0.8A	5%	63W	5.5W
STE A61-Q01-2	+5V	0.6A	6A	5%	+12V	0.3A	3A	5%	+12V	0A	0.8A	5%	-5V	0A	0.8A	5%	63W	5.5W
STE A61-Q01-3	+5V	0.6A	6A	5%	+12V	0.3A	3A	5%	+12V	0A	0.8A	5%	+5V	0A	0.8A	5%	63W	5.5W
STE A61-Q02	+5V	1.2A	6A	5%	+12V	0.6A	3A	5%	-12V	0A	0.8A	5%	-12V	0A	0.8A	5%	63W	5.5W

STEA61-Q02-1	+5V	1.2A	6A	5%	+12V	0.6A	3A	5%	-12V	0A	0.8A	5%	+12V	0A	0.8A	5%	63W	5.5W
STEA61-Q02-2	+5V	1.2A	6A	5%	+12V	0.6A	3A	5%	+12V	0A	0.8A	5%	-12V	0A	0.8A	5%	63W	5.5W
STEA61-Q02-3	+5V	1.2A	6A	5%	+12V	0.6A	3A	5%	+12V	0A	0.8A	5%	+12V	0A	0.8A	5%	63W	5.5W
STEA61-Q03	+5V	1.2A	6A	5%	+12V	0.6A	3A	5%	-12V	0A	0.8A	5%	+24V	0A	0.8A	5%	63W	5.5W
STEA61-Q03-1	+5V	1.2A	6A	5%	+12V	0.6A	3A	5%	-12V	0A	0.8A	5%	+24V	0A	0.8A	5%	63W	5.5W
STEA61-Q03-2	+5V	1.2A	6A	5%	+12V	0.6A	3A	5%	+12V	0A	0.8A	5%	-24V	0A	0.8A	5%	63W	5.5W
STEA61-Q03-3	+5V	1.2A	6A	5%	+12V	0.6A	3A	5%	-12V	0A	0.8A	5%	-24V	0A	0.8A	5%	63W	5.5W
STEA61-Q04	+5V	0.6A	6A	5%	+15V	0.3A	3A	5%	-15V	0A	0.8A	5%	-5V	0A	0.8A	5%	63W	5.5W
STEA61-Q04-1	+5V	0.6A	6A	5%	+15V	0.3A	3A	5%	-15V	0A	0.8A	5%	+5V	0A	0.8A	5%	63W	5.5W
STEA61-Q04-2	+5V	0.6A	6A	5%	+15V	0.3A	3A	5%	+15V	0A	0.8A	5%	-5V	0A	0.8A	5%	63W	5.5W
STEA61-Q04-3	+5V	0.6A	6A	5%	+15V	0.3A	3A	5%	+15V	0A	0.8A	5%	+5V	0A	0.8A	5%	63W	5.5W
STEA61-Q23	+5V	0.1A	1A	5%	+24V	0.18A	1.8A	5%	-15V	0A	0.1A	5%	+12V	0A	0.8A	5%	59.3W	5.5W

Electrical Characteristics						
Parameter	Test Conditions		Min.	Typ.	Max.	Unit
Safety Approvals Input Voltage Range			100		240	VAC
Operate Voltage Range			90		264	VAC
Input Frequency			47		63	Hz
Output Power Range	Vin=90 to 264VAC		0		63	W
Input Current (Low Line)	Io=Full load, Vin=110VAC				1.6	A
Input Current (High Line)	Io=Full load, Vin=240VAC				1.0	A
Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=100VAC			12	15	A
High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=240VAC				33	A
Efficiency	Io=Full Load, Vin=230VAC		65	70	70	%
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=100VAC				4	mS
Hold-Up Time	Io=Full Load, Vin=110VAC			12		mS
Start Up Time	Io=Full Load, Vin=100VAC				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	0.75	mA
Temperature Coefficient	All output		-0.04		0.04	%/°C
No-Load Power Consumption	No load, Vin=230VAC		See rating chart			W

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

Conditions						
Parameter	Test Conditions		Min.	Typ.	Max.	Unit
Operating Temperature			0		70	°C
Storage Temperature			-40		85	°C
Relative Humidity			0		95	%
Operating Temperature at 25°C, Calculated per MIL-HDBK-217F			0.1			M Hrs

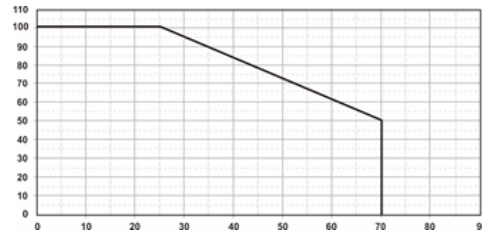


**PIN CHART**

MODEL	PIN	1	2	3	4	5	6	7	8
STEA61-SXX	OUT	OUT	OUT	RTN	RTN	RTN			
STEA61-DXX	Vo2	Vo1	Vo1	COM	COM	N/C			
STEA61-D15	N/C	Vo1	Vo1	COM	COM	Vo3			
STEA61-TXX	Vo2	Vo1	Vo1	COM	COM	Vo3			
STEA61-QXX	Vo2	Vo1	Vo1	COM	COM	Vo3	Vo4	Vo4	

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

**DERATING CHART**



1. Operating Temperature: 0 to 70°C
2. Derate linearly from 100% load at 25°C to 50% load at 70°C

- Note:**
1. Dimensions are shown in inches or mm.
  2. Weight: 250gs approx.
  3. Input connector mates with Molex housing 09-50-3031 and Molex 2478 series crimp terminal.
  4. Output connector mates with Molex housing 09-50-3061 (or 09-50-3081) and Molex 2478 series crimp terminal