

SCT4x & SCT401 Series Specification											
Rev 9 11/9/99											
		Model									
		SCT42	SCT43	SCT44	SCT45	SCT46	SCT47	SCT48	SCT401		
Specification		V1/V2/V3	V1/V2/V3	V1/V2/V3	V1/V2/V3	V1/V2/V3	V1/V2/V3	V1/V2/V3	V1/V2/V3		
1	Nominal Output Voltage (8)	V	+5/+12/-12	+5/+12/-12	+5/+12/-5	+5/+15/-15	+5/+24/-12	+5/+24/+12	+5/+24/-5	+3.3/+5/+or-12	
2	Minimum Output Current (9)	A	0.4/0.2/0	0.5/0/0	0.4/0.2/0	0.4/0.2/0	0.4/0.1/0	0.4/0.2/0	0.4/0.1/0	0.4/0/0	
Maximum Output Current											
3	convection cooled	A	4.0/2.0/0.5	5.0/5.0/5	4.0/2.0/0.5	4.0/2.0/0.5	4.0/1.0/0.5	4.0/1.0/0.5	4.0/1.0/0.5	4.0/2.0/0.5	
Maximum Output Current											
4	forced air cooled (300LFM)	A	5.0/2.5/0.7	6.0/0.7/0.7	5.0/2.5/0.7	5.0/2.5/0.7	5.0/1.5/0.7	5.0/1.5/0.7	5.0/1.5/0.7	5.0/2.5/0.7	
5	Maximum Peak Current (1)	A	7.0/4.0/1.0	7.0/1.0/1.0	7.0/4.0/1.0	7.0/3.0/1.0	6.0/2.0/1.0	6.0/2.0/1.0	6.0/2.0/1.0	7.0/4.0/1.0	
Maximum Output Power											
6	convection cooled	W	40	40	40	40	40	40	40	40	
Maximum Output Power forced											
7	air cooled (30 CFM 300LFM)	W	55	55	55	55	55	55	55	55	
8	Input Voltage Range	V	85-265VAC, 47-63Hz								
9	Efficiency (2)	%	70% Typical								
10	Inrush current -Typical (3)	A	36								
11	Adjustment Range	V	-5 ~ +10%, output 1 only							+/-5%	
12	Maximum Ripple & Noise (4)	mV	1% peak to peak								
13	Regulation Load / Line	%	+2/+5/+5	+2/+5/+5	+2/+5/+5	+2/+5/+5	+2/+7/+5	+2/+7/+5	+2/+7/+5	+2.5/+2.5/+5	
14	Cross Regulation (8)	%	+/-2% on output 1, +/-5% on outputs 2 & 3								
15	Transient response		To be determined								
16	Overcurrent Protection (5)		Short circuit protection								
17	Overvoltage Protection (6)		115-135% on channel 1 only								
18	Hold up time - typical (7)	ms	20							16	
19	Operating Temperature	C	0 ~ 50C								
20	Operating Humidity		5 ~ 95% non condensing								
21	Storage Temperature	C	-20 ~ 85C								
22	EMI		FCC Class B Conducted, EN55022 class B								
23	Output - Ground isolation		500VDC								
24	Vibration		10 - 55Hz Amplitude (sweep 1 min) Less than 2G X, Y, Z 1 hour ea								
25	Shock		<20G								
26	Safety		UL1950, CSA 22.2 #950, EN60950, CE mark								
27	Other		IEC801-2~6 level 3								
28	Size		127 x 76.2 x 25.4 (Max component height) component leads cropped 3mm max								
29	Terminals		Molex 09-50-80xx input & output								
30	Options										
Remote sense V1 only			Add "R" to model number								
Notes:											
1 Peak current lasting <30 seconds with 10% max duty cycle. Average power not to exceed rated maximum. Output voltage may exceed regulation limits											
2 At 100VAC or 200VAC input and maximum output power											
3 At 230VAC input cold start at 25C											
4 Measured across 10uF electrolytic in parallel with 0.1uF ceramic on load cables 150mm from terminals of power supply											
5 Avoid prolonged operation in overload											
6 Self Resetting											
7 40W load at 115VAC nominal line											
8 On SCT401, third output is floating											
9 To maintain regulation, minimum loads for V1 & V2 are defined by the following formula:											
			SCT42	SCT43	SCT44	SCT45	SCT46	SCT47	SCT48		
			$0.25 \leq I_{V1}/I_{V2} \leq 5$	N/A	$0.25 \leq I_{V1}/I_{V2} \leq 5$	$0.25 \leq I_{V1}/I_{V2} \leq 5$	$0.25 \leq I_{V1}/I_{V2} \leq 25$	$0.25 \leq I_{V1}/I_{V2} \leq 25$	$0.25 \leq I_{V1}/I_{V2} \leq 25$		
			I_{V1} = Current on output V1								
			I_{V2} = Current on output V2								
Example: SCT42. 5V @ 4A. $0.25 \leq I_{V2} \leq 5$, thus the minimum load on V2, I_{V2} , = 0.8A											
Example: SCT42. 12V @ 2A. $0.25 \leq I_{V1}/2 \leq 5$, thus the minimum load on V1, I_{V1} , = 0.5A											