

SCT4x & SCT401 Series Specification										
Rev 9 11/9/99										
		Model								
Specification		SCT42	SCT43	SCT44	SCT45	SCT46	SCT47	SCT48	SCT401	
		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							
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							
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										