



4 x 7" Low Cost PFC Power Supplies

- ◆ Low Cost
- ◆ Single and Multiple Outputs
- ◆ Wide Range AC Input with PFC
- ◆ Global Safety Agency Compliance

Key Market Segments & Applications

Computer Peripherals
 Datacom
 Point of Sale
 Test and Measurement

SC120 Features and Benefits

Feature	Benefit
◆ Industry standard footprint	◆ Availability to second source
◆ Power factor Correction	◆ Worldwide usage
◆ Meets EN61000-4 immunity	◆ Greater reliability

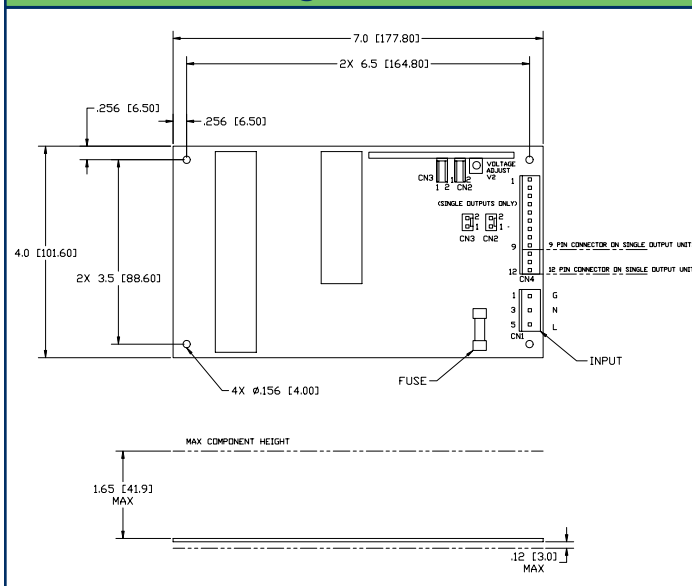
Specifications

MODEL		SC120
ITEMS		
Output Power	W	80W Convection, 110W Forced Air, 120W Peak (<30s, 10% duty cycle)
Main Output Adjustment	V	V1 only $\pm 5\%$ (except SCS120: $\pm 5\%$, SCQ12003051212: V2 only $\pm 5\%$.)
Line Regulation	-	Typically 0.1%
Load Regulation	-	V1: $\pm 2\%$ V2: $< 5V \pm 3\%$, 6-15V $\pm 5\%$, $> 15V + 10 - 5\%$ V3: $\pm 5\%$, V4: $\pm 5\%$
Ripple and Noise	-	1% or 50mV minimum, peak to peak
Transient Response	-	$< 10\%$ deviation, recovery $< 1ms$ for a 25% load change over 20-100% load
Remote Sensing	-	V1 only compensates for 0.25V drop per lead (SCQ120P03051212 V1 & V2 outputs)
Overcurrent Protection	-	Short circuit protected
Overvoltage Protection	-	V1 only (SCQ12003051212 V1 & V2)
Size (W x L x H)	In.	4 x 7 x 1.65" (Maximum component height)
AC Input	-	90-264 VAC, 47-63 Hz
Harmonic Correction (PFC)	-	Meets EN61000-3-2
Efficiency	%	Typically 70% full load at nominal AC Line
Inrush Current Limiting	A	36A typical @ 230VAC cold start @ 25°C
Hold Up Time (typical)	ms	16mS
Surge Immunity	-	EN61000-4 (-2 through -5) level 3, Class A
EMI	-	FCC Class B, EN55022 B, EN55011, EN50081-1, -2
Cooling	-	Convection or Forced (30CFM)
Operating Temp. Range	-	0 to +50°C
Storage Temperature	-	-20 to +85°C
Shock	-	$< 20G$
Vibration	-	10Hz-55Hz amplitude (sweep 1 min), $< 2G$ X, Y, Z axis for 1 hour each
Safety Agency Approval	-	UL1950, CSA950, EN60950, CE Mark
Warranty	-	1 year

SC120 Output Ratings

Model		Output (V)	Min Load (A)	Conv. (A)	Forced Air (A)	Peak Load (A)
Single Output						
SCS120P03	V1	3.3	-	16.0	22.0	25.0
SCS120P05	V1	5	-	16.0	22.0	25.0
SCS120P12	V1	12	-	6.7	9.2	10.4
SCS120P15	V1	15	-	5.3	7.3	8.3
SCS120P24	V1	24	-	3.3	4.6	5.2
SCS120P48	V1	48	-	1.7	2.3	2.6
Dual Output						
SCD120P0524	V1	5	2.0	9.0	11.0	15.0
	V2	24	0.5	3.5	4.5	5.0
Triple Output						
SCT120P030512	V1	3	-	8.0	16.0	28.0
	V2	5	1.0	10.0	20.0	28.0
	V3	12	0.2	2.0	3.0	4.0
Quad Output						
SCQ120P05241212R	V1	5	2.0	9.0	11.0	15.0
	V2	24	0.3	3.0	3.0	5.0
	V3	12	-	0.7	1.0	1.5
	V4	-12	-	0.7	1.0	1.5
SCQ120P05241515R	V1	5	2.0	9.0	11.0	15.0
	V2	24	-	3.0	3.0	5.0
	V3	15	-	0.7	1.0	1.5
	V4	-15	-	0.7	1.0	1.5
SCQ120P05121205	V1	5	2.0	9.0	11.0	15.0
	V2	12	-	4.5	5.0	9.0
	V3	-12	-	0.7	1.0	1.5
	V4	-5	-	0.7	1.0	1.5
SCQ120P05121205R	V1	5	2.0	9.0	11.0	15.0
	V2	12	-	4.5	5.0	9.0
	V3	12	-	0.7	1.0	1.5
	V4	-5	-	0.7	1.0	1.5
SCQ120P03051212	V1	3.3	-	8.0	16.0	28.0
	V2	5	1.0	10.0	20.0	28.0
	V3	12	0.2	2.0	3.0	4.0
	V4	-12	-	0.5	1.0	1.0

SC120 Outline Drawing



Other Lambda Industrial Products

SC40 & SC60	3" x 5" Single, Dual, and Triple output
ZWS	5 to 150W single output, universal input
VSB & VSC	10 to 150W single output, 115VAC input
NV175	175W Triple & Quad 3" x 5"

For Additional Information, please visit
www.lambdapower.com/products/sc-120.htm