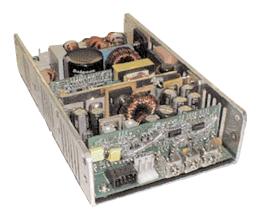
70-120 Watts NTQ123 Series



Special Features

- Active power factor correction
- EN61000-3-2 compliance
- Remote sense on outputs one and two
- Power fail and remote inhibit
- Single wire current sharing on outputs one and two
- Adjustable main outputs
- Built-in Class B EMI filter
- Overvoltage protection
- Overload protection
- Thermal overload protection

Environmental

Operating temperature: 0° to 50°C ambient; derate each output at 2.5% per degree from 50° to 70°C

Electromagnetic susceptibility: Designed to meet EN61000-4, -2, -3, -4, -5, -6, -8, -11 Level 3

Humidity: Operating; non-condensing 5% to 95%

Vibration: Three orthogonal axes, sweep at 1 oct/min, 5 min. dwell at four major resonances 0.7 G peak 5 Hz to 500 Hz, operational

Storage temperature: -40° to 85°C

Temperature coefficient: ± .04% per °C

MTBF demonstrated: >1 million hours at full load and 25°C ambient conditions

Electrical Specs

70-120 Watts

Input Input range Frequency Inrush current Efficiency

EMI filter

Total Power:

Input Voltage: 85-264 VAC # of Outputs: Quad

> Power factor Safety ground leakage current

Output Maximum power

Adjustment range Hold-up time Overload protection

Overvoltage protection

Logic Control

Power failure

Remote inhibit

85-264 VAC 47-63 Hz 38 A max., cold start @ 25°C 65% typical at full load FCC Class B conducted and radiated, CISPR 22 Class B conducted and radiated, EN55022 Class B conducted and radiated, VDE 0878 PT3 Class B conducted and radiated. 0.99 typical

<1 mA @ 50/60 Hz, 264 VAC input

70 W convection, 120 W with 30 CFM forced air ±5% minimum on outputs one and two 20 ms @ 120 W load, 120 VAC input Short circuit protection on all outputs. Case overload protected @ 110-145% above peak rating 3.3 V and 5 V output: 20% to 35% above nominal output

TTL logic signal goes high 100-500 msec after 5 V output; it goes low at least 4 msec before loss of regulation Requires an external TTL Signal to inhibit outputs Compensates for 0.5 V lead drop minimum, will operate without remote sense connected. Reverse connection protection.

	Safety	
VDE UL CSA NEMKO BABT CB	0805/EN60950 (IEC950) UL1950 CSA 22.2-234 Level 3 LR109 EN 60950/EMKO-TUE P9810 (74-sec) 203 EN60950/EN41003 Certificate and report	
CE	Mark (LVD)	2003



Remote sense

AMERICAS

5810 Van Allen Way Carlsbad, CA 92008 Telephone: 760-930-4600 Facsimile: 760-930-0698

EUROPE

Astec House, Waterfront Business Park Merry Hill, Dudley West Midlands, DY5 1LX, UK Telephone: 44 (1384) 842-211 Facsimile: 44 (1384) 843-355

ASIA Units 2111-2116, Level 21

Tower 1, Metroplaza 223, Hing Fong Road Kwai Fong, New Territories Hong Kong Telephone: 852-2402-4426 Facsimile: 852-2402-4426 ASTEC

Ordering Information

Model Number	Output Voltage	Minimum Load⁴	Maximum Load with Convection Cooling	Maximum Load with 30 CFM Forced Air	Peak Load¹	Regulation ²	Ripple P/P (PARD)³
NTQ123	+3.3 V	0 A	14 A	25 A	28 A	±2%	50 mV
	+5 V	2 A	12.5 A	24 A	28 A	±2%	50 mV
	+12 V	0 A	1 A	2 A	4 A	±3%	120 mV
	-12 V	0 A	0.5 A	1 A	1.5 A	±3%	120 mV

1. Peak current lasting <30 seconds with a maximum 10% duty cycle.

2. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.

3. Peak-to-peak with 20 MHz bandwidth and $10 \,\mu\text{F}$ in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.

4. Minimum loads are required. In parallel minimum loads are 2.5 A on the 5 V output and 1 A on the 3.3 V output for each power supply.

	Pi	n Assignments	
Connec	tor		
SK1	PIN 1 PIN 3 PIN 5	Ground Neutral Live	M 3.5 (3 places) MAIN OUTPUTS MAIN OUTPUT
SK5	PIN 1 PIN 2 PIN 3	+12 V Common -12 V	
	PIN 1 PIN 2 PIN 3 PIN 4 PIN 5 PIN 6 PIN 7 PIN 8 PIN 9 PIN 10 Connectors C Input:	3.3 V SWP -3.3 V Sense +3.3 V + Sense 5 V SWP COMMON +5 V Sense -5 V Sense + Inhibit - Inhibit Power Fail Molex: 09-50-8051 (USA) Molex: 09-91-0500 (UK) PINS: 08-58-0111	
SK2,3,4 (SK5) ±	: 12V Molex:09-5	Molex series 19141-0058/0063	
(SK6) C	ontrol Signals:	Molex: 90142-0010 PINS: 90119-2110 or Amp: 87977-3 PINS: 87309-8	<u>531</u> <u>54.00</u> (101.6)
Notes:	onnector Kit #7		
 All of Rem to a 	limensions in in note inhibit requ ctivate	ches (mm), tolerance ±.02". uires an external 5 V @ 10 mA n insertion depth is 0.12".	

EMERSON Network Power 107

Warranty: 1 year
 Weight: 1.38 lb. / .63 kg