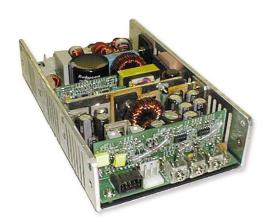
70-120 Watts NTQ123 Series

Total Power: 70-120 Watts Input Voltage: 85-264 VAC # of Outputs: Quad



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

Input

Input range 85-264 VAC Frequency 47-63 Hz

Inrush current 38 A max., cold start @ 25°C Efficiency 65% typical at full load

EMI filter 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.

Power factor 0.99 typical

Safety ground leakage current <1 mA @ 50

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

Output

Maximum power 70 W convection,

120 W with 30 CFM forced air

Adjustment range ±5% minimum on outputs one and two Hold-up time 20 ms @ 120 W load, 120 VAC input Short circuit protection on all outputs. Case overload protected @ 110-145%

above peak rating

Overvoltage protection 3.3 V and 5 V output: 20% to 35%

above nominal output

Logic Control

Remote inhibit

Power failure 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

Remote sense Compensates for 0.5 V lead drop minimum, will operate without

minimum, will operate without remote sense connected. Reverse

connection protection.

Safety

VDE 0805/EN60950 (IEC950) 21310-3336-0004 **UL** UL1950 E186249

CSA CSA 22.2-234 Level 3 LR109492C NEMKO EN 60950/EMKO-TUE P98100870

(74-sec) 203

CB Certificate and report 5009

CE Mark (LVD)

rev 12.12.03



AMERICAS

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ASIA



Ordering Information

-	Model Number	Output Voltage	Minimum Load ^e	Maximum Load with Convection Cooling	Maximum Load with 30 CFM Forced Air	Peak Load ^r	Regulation²	Ripple P/P (PARD)³
П	NTQ123	+3.3 V	0 A	14 A	25 A	28 A	±2%	50 mV
н		+5 V	2 A	12.5 A	24 A	28 A	±2%	50 mV
н		+12 V	0 A	1 A	2 A	4 A	±3%	120 mV
ı		-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 µF 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.

Pin Assignments

Connec	tor		OV.
SK1	PIN 1 PIN 3 PIN 5	Ground Neutral Live	M 3.5 (3 places) MAIN OUTPUTS MAIN OUTPUTS M3.5 M3.5 M46-32 UNC (8 places) M3 (4 places) .5625
SK5	PIN 1 PIN 2 PIN 3	+12 V Common -12 V	MAIN OUTPUTS + 8 + 123 SK4 SK3 SK2 VR401 VR403
		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 Molex BB-124-08 60-8031 (USA) Molex: 09-91-0300 (UK) PINS: 08-58-0111 Molex: 90142-0010 PINS: 90119-2110	5.5.5 (139.7) 4.7 (119.6) (16
Astec C	onnector Kit #7	or Amp: 87977-3 PINS: 87309-8 0-841-012, includes al of the above.	4.00 (38.1)
2. All c 3. Rem	limensions in in	ect to change without notice. ches (mm), tolerance ±.02". uires an external 5 V @ 10 mA	2.5 (63.5)

- 2. All dimensions in inches (mm), tolerance ±.02".
- 3. Remote inhibit requires an external 5 V @ 10 mA to activate
- 4. Mounting maximum insertion depth is 0.12".
- 5. Warranty: 1 year
- Weight: 1.38 lb. / .63 kg



6.5 (165.1)

7.0 (177.8)