70-125 Watts **NTQ123-DC Series**

Total Power: 70-120 Watts Input Voltage: 36-72 VDC # of Outputs: Ouad



Special Features

- -48 VDC input
- 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

Electrical Specs

Input Input range Inrush current Efficiency EMI filter

Safety ground Leakage current

Output Maximum power

Adjustment range Hold-up time Overload protection

Overvoltage protection

Logic Control

Power failure

Remote Inhibit

Remote sense

36-72 VDC 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.

<1 mA @ 72 VDC input

70 W convection, 125 W with 30 CFM forced air ±5% minimum on outputs one and two 20 ms @ 120 W load, -48 VDC input Short circuit protection on all outputs. Case overload protected @ 110-145% above peak rating 3.3 V and 5 V output: 10% 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	0805/EN60950 (IEC950)
UL	UL1950
CSA	CSA 22.2-234 Level 3
NEMKO	EN 60950/EMKO-TUE
	(74-sec) 203
СВ	Certificate and report
CE	Mark (LVD)

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

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

Units 2111-2116, Level 21 Tower1, Metroplaza 223, Hing Fong Road Fwai Fong, New Territories Hong Kong Telephone: 852-2437-9662 Facsimile: 852-2402-4426

ASIA



Ordering Information

Model	Output	Minimum	Maximum Load with	Maximum Load with	Peak	Regulation ²	Ripple
Number	Voltage	Load⁴	Convection Cooling	30 CFM Forced Air	Load'		P/P (PARD)³
NTQ123-DC	+3.3 V(2.5-5.7)	2 A	14 A	25 A	28 A	±2%	50 mV
	+5 V(2.5-5.7)	0 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 μF in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.

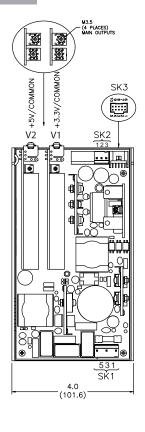
4. Minimum loads are required. In parallel minimum loads are 2 A on the 5 V output and 2 A on the 3.3 V output for each power supply

	Pi	n Assignments	
Connec	tor		
SK1	PIN 1 PIN 3 PIN 5	Ground -48 VDC Return	M3.5 (HALCES) (MAN OUTPUTS
SK2	PIN 1 PIN 2 PIN 3	+12 V Common -12 V	+5v/common +3.3v/common
SK 3	PIN 1 PIN 2 PIN 3 PIN 4 PIN 5 PIN 6 PIN 6 PIN 7 PIN 8 PIN 9 PIN 10	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	
(SK1) D	Connectors C Input:	Molex: 09-50-8051 (USA) Molex: 09-91-0500 (UK) PINS: 08-58-0111	
V1 & V2 (SK2) ±		Molex BB-124-08 Molex:09-50-8031 (USA) Molex: 09-91-0300 (UK) PINS: 08-58-0111	
(SK3) C	ontrol Signals:	Molex: 90142-0010 PINS: 90119-2110 or Amp: 87977-3 PINS: 87309-8	4.0 (101.6)
Astec C	Connector Kit #7	0-841-012, includes al of the above.	
Notes: 1. Spe	cifications subje	ct to change without notice.	

- Specifications subject to change without notice.
- 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

www.astec.com

6. Weight: 1..49 lb. / 0.68 kg



2.5 (63.5)

