NTS350 Series

Total Power: 200 - 350 Watts **Input Voltage:** 85 - 264 VAC 120 - 300VDC

of Outputs: Single



Rev. 11.24.08 NTS350 Series 1 of 3



Electrical Specifications

Input Input range 85 - 264 VAC (wide range) Frequency 47-440 Hz Inrush current 38A max., cold start @ 25°C Efficiency 85% typical at full load EMI filter FCC Class B conducted and radiated; CISPR22 Class B conducted and radiated; EN55022 Class B conducted and radiated; VDE0878PT3 Class B conducted and radiated. Safety ground leakage <0.5mA @ 50/60 Hz, 264 VAC input current Output Maximum power 200W for convection; 350W with 30CFM forced air Adjustment range ±5% Standby output 5V @ 2A regulated, ±5% Fan output 12 V @ 1A, -5 %, +7%, 0.5A for -CF version

130% above peak rating

20-35% above nominal output

20 ms @ 350 W load, 115 VAC nominal line at factory voltage setting

Short circuit protection on all outputs. Case overload protected @ 115-

Special Features

- Active power factor correction
- IEC EN6100-3-2 compliance
- Remote sense
- Power fail and remote inhibit
- Single wire current sharing
- Built-in EMI filter
- Low output ripple
- 5V standby
- 12V fan output
- Overvoltage protection
- Overload protection
- Thermal overload protection
- DC power good
- Built in OR-ing diode / FET
- Optional fan cover (-CF suffix)

Safety

CE

TUV 60950
 UL 0950
 CSA 60950
 NEMKO 60950
 AUSTEL 60950
 CB Certificate and report

Mark (LVD)



Hold-up time

Overload protection

Overvoltage protection



Rev. 11.24.08 NTS350 Series 2 of 3

Logic Control	
Power failure	TTL logic signal goes high 100-500 msec after main output. It goes low at least 4 msec before loss of regulation
Remote on/off	Requires an external contact closure to inhibit outputs
DC OK	TTL logic goes high after the output is in regulation. It goes low when there is loss of regulation.
Remote sense	Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected.

Environmental Specifications

	•				
Operating temperature:	0° to 50° C ambient derate each output as 2.5% per degree from 50° to 70° C.				
Storage temperature:	-40°C to +85°C				
Electromagnetic	designed to meetEN61000-4;				
susceptibility:	2, -3, -4, -5, -6, -8, -11 Level 3				
Humidity:	Operating; non-condensing 10% to 90% RH				
Vibration:	Three orthogonal axes, sweep at 1 oct/min, 5 min. dwell at four major resonances 2 G peak 8 Hz to 500 Hz, operational				
MTBF demonstrated	1M hours at full load and 25°C ambient conditions				

Ordering Information							
Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 30CFM Forced Air	Peak Load ¹	Regulation ²	Ripple P/P (PARD)³
NTS353	12V	0A	16.6A	29.2A	33A	±2%	120mV
NTS355	24V	0A	8.3A	14.6A	16.5A	±2%	240mV
NTS358	48V	0A	4.2A	7.3A	8.2A	±2%	480mV
NTS359	54V	0A	3.7A	6.5A	7.4A	±2%	540mV

- 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 μ F (tantalum capacitor) in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.

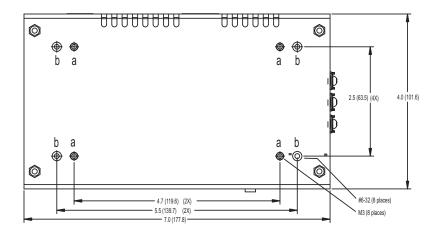
Pin Assianments

LIII V2	signinen	LS					
Connector		Mating Connectors		No	Notes:		
SK1	PIN 1 PIN 3 PIN 5	Line Neutral Ground	SK1 AC input	Mole	x 09-50-8051 (USA) x 09-91-0500 (UK) 08-52-0113		Specifications subject to change without notice. All dimensions in inches (mm), tolerance is
SK5 1 6 1	PIN 1 PIN 2 PIN 3 PIN 4 PIN 5 PIN 6 PIN 7 PIN 8	V1 swp - Remote Sense + Remote Sense 5VSB (standby) 5VSB return +12V Common Inhibit	SK2,3,4 SK5 Control sig		Molex 90142-0010 PINS: 90119-2110 or Amp: 87977-3 PINS: 87309-8	4. 5.	±.02". Specifications are at factory settings Mounting maximum insertion depth is 0.12". Warranty: 2 year Weight: 2.5 lb. / 1.13 kg.
	PIN 9 PIN 10	DC power good (DC OK) Power Fail (POK)	Astec Connector Kit #70-841-022 includes all of the above				

Adjustment Potentiometers

P1 +V1 Output adjust P3 +5VSB adjust

+ V OR-ing out + V out Common SK1 -CF option Voltage **ADJ POT** -CF option 1.27 (32.26) **(1)** .75 (19.1) (3X) 1.14 (29.1) **@**b 1.5 (38.10) **⊕**a 6.4 (2X) 5.85 (148.7) 6.25 (158.7)



Rev. 11.24.08 NTS350 Series 3 of 3

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