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NTS350 Series

350 Watts

Total Power: 200 - 350 Watts Input Voltage: 85 - 264 VAC 120 - 300VDC # of Outputs: Single



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)

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 conduct-

ed and radiated; EN55022 Class B conducted and radiated;

VDE0878PT3 Class B conducted and radiated.

Safety ground leakage

current <0.5mA @ 50/60 Hz, 264 VAC input

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

Hold-up time 20 ms @ 350 W load, 115 VAC nominal line at factory voltage

setting

Overload protection Short circuit protection on all outputs. Case overload protect-

ed @ 115-130% above peak rating

Overvoltage protection 20-35% above nominal output

Safety

TUV 60950 UL 60950 CSA 60950 NEMKO 60950 AUSTEL 60950

CB Certificate and report

CE Mark (LVD)





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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

TTL logic goes high after the output is in regulation. It goes low when there is loss of regulation.

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

Three orthogonal axes, sweep at

Vibration: 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 Load¹	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

Connect	or		Mating Conn			Λ.
SK1	PIN 1 PIN 3 PIN 5	Line Neutral Ground	Mating Conne SK1 AC input	Mole: Mole:	x 09-50-8051 (USA) x 09-91-0500 (UK) 08-52-0113	Λ 1 2
SK5 1 6	PIN 4 PIN 5	V1 swp - Remote Sense + Remote Sense 5VSB (standby) 5VSB return	SK2,3,4 SK5 Control si		x BB-124-08 Molex 90142-0010 PINS: 90119-2110 or	3 4 5 6 he above
	PIN 6 PIN 7 PIN 8 PIN 9 PIN 10	+12V Common Inhibit DC power good (DC OK) Power Fail (POK)	Astec Connect	or Kit #7	Amp: 87977-3 PINS: 87309-8 70-841-022 includes all of the a	

Notes:

- 1. Specifications subject to change without notice.
- 2. All dimensions in inches (mm), tolerance is $\pm .02$ ".
- 3. Specifications are at factory settings
- 4. Mounting maximum insertion depth is 0.12".
- 5. Warranty: 1 year
- 6. Weight: 2.5 lb. / 1.13 kg.

Adjustment Potentiometers P1 +V1 Output adjust

P1 +V1 Output adj P3 +5VSB adjust

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