350 Watts NTS350 Series

Total Power: Input Voltage:

of Outputs:

200-350 Watts 85-264 VAC 120-300 VDC 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)

Environmental

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

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

Humidity: Operating; non-condensing 10% to 90%

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

Storage temperature: -40° to 85°C Temperature coefficient: ±.04% per °C

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

Input

Input range 85-264 VAC: 120-300 VDC

Frequency 47-440 Hz

Inrush current 38 A max., cold start @ 25°C 85% typical at full load Efficiency

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

Output

Maximum power 200W convection; 350 W with 30 CFM

> forced air ±5%

Adjustment range Standby output 5 V @ 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

Short circuit protection on all outputs. Overload protection

Case overload protected @ 115-130%

above peak rating

Overvoltage protection 20% to 35% above nominal output

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.

Safety

TUV 60950 UL 60950 60950 **CSA NEMKO** 60950 **AUSTEL** 60950

CB Certificate and report

CE Mark (LVD)



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AMERICAS

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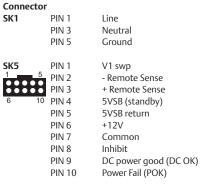


Ordering Information

Mod Nun		Output Voltage	Minimum Load	Maximun Load with Convection Cooling	Maximum Load with 30 CFM Forced Air	Peak Load1	Regulation2	Ripple P/P (PARD)3
NTS	353 1	12V	0 A	16.6 A	29.2 A	33 A	±2%	120 mV
NTS	358 4	48V	0A	4.2A	7.3A	8.2	±2%	480mV
NTS	359 5	54V	0A	3.7A	6.5A	7.4	±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 μF in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.

Pin Assignments



Adjustment Potentiometers

P1 +V1 Output adjust P3 +5VSB adjust

Mating Connectors

SK1 AC input Molex 09-50-8051 (USA)

Molex 09-91-0500 (UK) PINS:08-58-0111

SK2,3,4 Molex BB-124-08

SK5 Control signals Molex 90142-0010

PINS: 90119-2110 or Amp: 87977-3 PINS: 87309-8

Astec Connector Kit #70-841-022 includes all of the above

Notes:

- 1. Specifications subject to change without notice.
- 2. All dimensions in inches (mm), tolerance is ±.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.

