

NTS350 Series

350 Watts

Data Sheet

Total Power: 200 - 350 Watts **Input Voltage:** 85 - 264 Vac 120 - 300 Vdc

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
- 5 V standby
- 12 V fan output
- Overvoltage protection
- Overload protection
- Thermal overload protection
- DC power good
- Built in OR-ing diode/FET
- Optional fan cover (-CF suffix)
- Optional end fan cover (-CEF suffix)

SAFETY

TUV 60950
UL 0950
CSA 60950
cULus 60950 (-CEF)

NEMKO 60950AUSTEL 60950

CB Certificate and report

CE Mark (LVD)CCC Certificate



Electrical Specifications			
Input			
Input range:	85 - 264 Vac (wide range)		
Frequency:	47 - 440 Hz (47- 63 Hz for -CEF versions)		
Inrush current:	38 A 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 current:	< 0.5 mA @ 50/60 Hz, 264 Vac input		
Output			
Maximum power:	200 W for convection; 350 W with 30CFM forced air		
Adjustment range:	± 5%		
Standby output:	5 V @ 2 A regulated, ± 5%		
Fan output:	12 V @ 1 A, -5 %, +7%, 0.5 A 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 protected @ 115 - 130% of peak rating		
Overvoltage protection:	20 - 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.

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 susceptibility:	Designed to meet EN61000-4; -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		Peak Load ¹	Regulation ²	Ripple P/P (PARD) ³
NTS353	12 V	0 A	16.6 A	29.2 A	33 A	± 2%	120 mV
NTS355	24 V	0 A	8.3 A	14.6 A	16.5 A	± 2%	240 mV
NTS358	48 V	0 A	4.2 A	7.3 A	8.2 A	± 2%	480 mV
NTS359	54 V	0 A	3.7 A	6.5 A	7.4 A	± 2%	540 mV

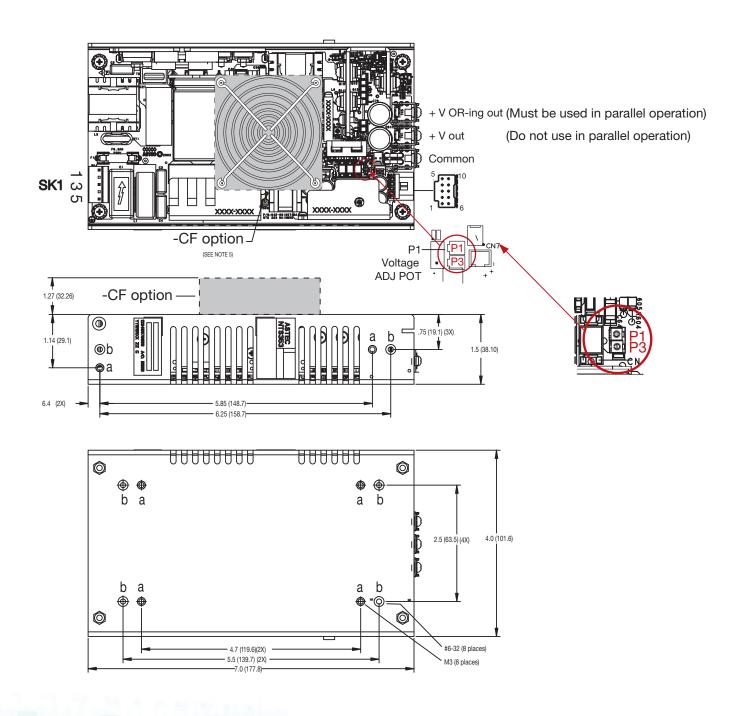
- 1. Peak current lasting < 30 seconds with a maximum 10% duty cycle.
- 2. At 25 °C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
- 3. Peak-to-peak with 20 MHz bandwidth and 10 µF (tantalum capacitor) in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.
- 4. CF suffix added to the model number indicates cover with top fan. -CEF suffix added to the model number indicates cover with end mounted fan cover and AC inlet

Pin Assignments			
Connector			
SK1	PIN 1	Line	
	PIN 3	Neutral	
	PIN 5	Ground	
SK5	PIN 1	V1 swp	
1 5	PIN 2	- Remote Sense	
6 10	PIN 3	+ Remote Sense	
	PIN 4	5VSB (standby)	
	PIN 5	5VSB return	
	PIN 6	+12V	
	PIN 7	Common	
	PIN 8	Inhibit	
	PIN 9	DC power good (DC OK)	
	PIN 10	Power Fail (POK)	

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:08-52-0113		
SK2,3,4	Molex BB-124-08		
SK5 Control signals	Molex 90142-0010		
	PINS: 90119-2110		
Or	Amp: 87977-3		
	PINS: 87309-8		
Artesyn Embedded Technologies Connector Kit #70-841-022 includes all of the above			

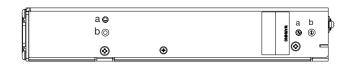
- 1. Specifications subject to change without
- 2.All dimensions in inches (mm), tolerance is \pm 0.2".
- 3. Specifications are at factory settings
- 4. Mounting maximum insertion depth is 0.12".
- 5. Warranty: 2 year
- 6. Weight: NTS35X 1.65 lbs/750g. NTS35X-CF 2 lbs/909g. NTS35X-CEF 2.25 lbs/1022g.

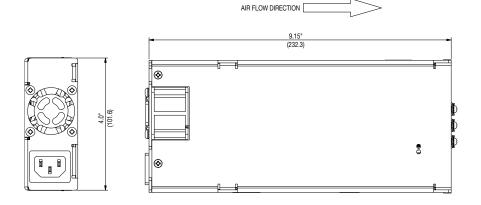
Mechanical Drawing



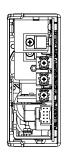
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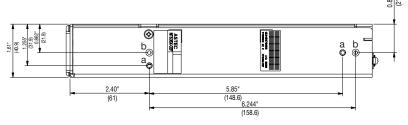
Mechanical Drawing - CEF option

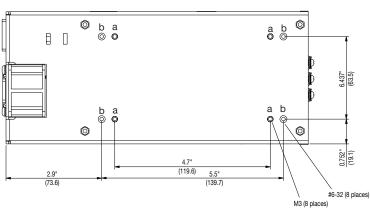




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