

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 60950

AUSTEL 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	Maximum Load with 30CFM Forced Air	Peak Load¹	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
- 5. This product is a Component Power Supply and is only for inclusion by professional installers within other equipment and must not be operated as a standalone product. EMC compliance to appropriate standards must be verified at the system level. This product is for sale to OEMs and System Integrators, including through Distribution Channels. It is not intended for sale to End Users.

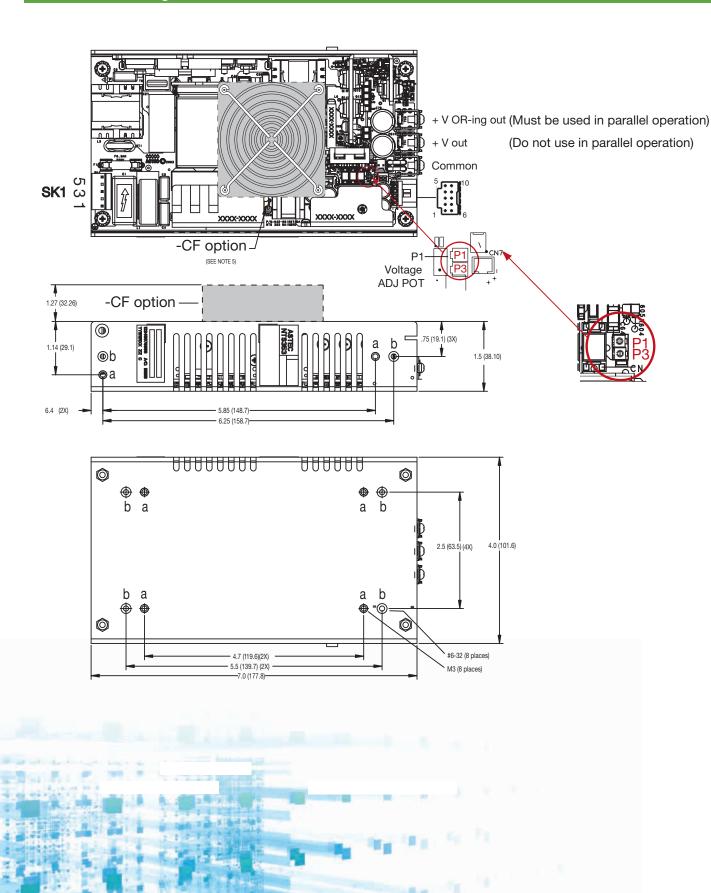
Pin Assignments				
Connector				
SK1	PIN 1	Line		
	PIN 3	Neutral		
	PIN 5	Ground		
SK5	PIN 1	V1 swp		
1 5	PIN 2	- Remote Sense		
6 10	PIN 3	+ Remote Sense		
	PIN 4	5VSB (standby)		
	PIN 5	5VSB return		
	PIN 6	+12V		
	PIN 7	Common		
	PIN 8	Inhibit		
	PIN 9	DC power good (DC OK)		
	PIN 10	Power Fail (POK)		

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 Power (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.

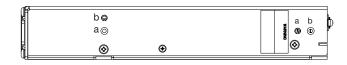


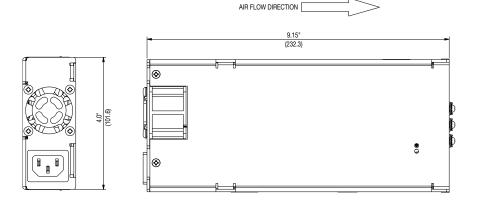
Mechanical Drawing



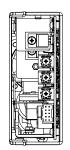
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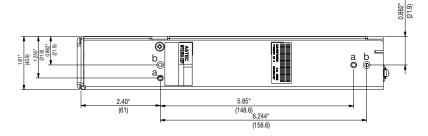
Mechanical Drawing - CEF option

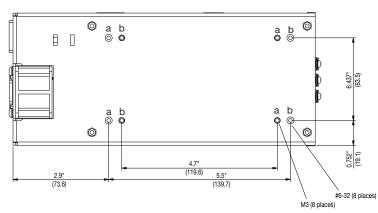




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