

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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NTS500-M Series

500 Watts Medical

Total Power: 200 - 500 Watts Input Voltage: 85 - 264 Vac 120 - 300 Vdc

of Outputs: Single

SPECIAL FEATURES

- Active power factor correction
- IEC EN61000-3-2 compliance
- Remote sense

Data Sheet

- 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)
- PMBus compliant
- RoHS compliant
- Digital I²C interface
- Two year warranty
- POE isolation on NTS508-M

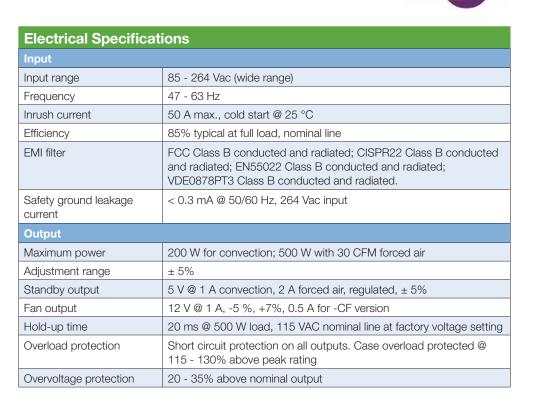
SAFETY

TUV: 60601-1 cULus: 60601-1

CB: Certificate & report

CE: Mark (LVD)







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		

Ordering Information							
Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling		Peak Load ¹	Regulation ²	Ripple P/P (PARD) ³
NTS503-M	12 V	0 A	16.6 A	41.7 A	47 A	± 2%	120 mV
NTS505-M	24 V	0 A	8.3 A	20.8 A	23.4 A	± 2%	240 mV
NTS508-M	48 V	0 A	4.2 A	10.4 A	11.7 A	± 2%	480 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. 12 V fan output cannot be used above 50 °C with convection cooling.
- 5. -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
- 6. 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				
CN1	PIN 1	Line		
	PIN 3	Neutral		
	PIN 5	Ground		
SK7	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)		
SK8 1 2	PIN 1	+12 V Fan		
	PIN 2	Common		

Pin Assignments			
Connector			
CN403	PIN 1	5 V_I ² C	
1 5	PIN 2	Ground	
	PIN 3	A2	
6 10	PIN 4	AO	
	PIN 5	SVCC2_OR	
	PIN 6	I ² C_SDA	
	PIN 7	I ² C_SLC	
	PIN 8	A1	
	PIN 9	N/C	
	PIN 10	+12 V_RTN_CTRL	

Notes:

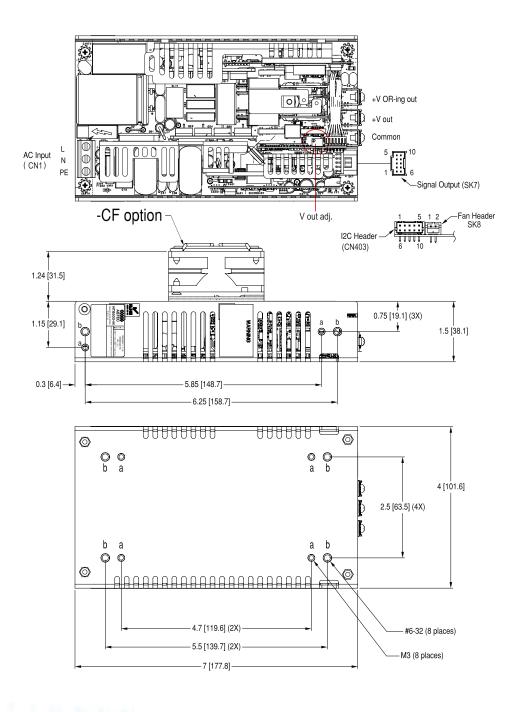
- $1. \ \ Specifications \ subject \ to \ change \ without \ notice.$
- 2. All dimensions in inches (mm), tolerance is \pm 0.2".
- 3. Specifications are at factory settings
- 4. Mounting maximum insertion depth is 0.12".
- 5. Warranty: 2 year
- 6. Weight: NTS50X-M 1.66 lbs/0.75 kg

NTS50X-M-CF - 2.00 lbs/0.9 kg NTS50X-M-CEF - 2.26 lbs/1.03 kg

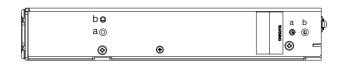
Adjustment Potentiometers		
P1	+V1 Output adjust	
Mating C	onnectors	
SK4,5,6	Molex 19141-0058	
SK7 Control	Molex 90142-0010	
signals	PINS: 90119-2110	
	Amp: 87977-3	
	PINS: 87309-8	
	*Landwin: 2580S1003	
	PINS: 2583T011R	
SK8	JST PHR-2	
	Pins: SPH-002T-PO.5S	
CN403	JST PHDR-10VS	
	Pins: JST SPHD-002T-P0.5 L/P	
	*Landwin 2050 S1000	
	Pins: 2053T011P	

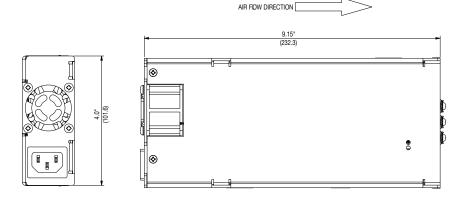
* Where available Artesyn Connector Kit #70-841-024 includes all of the above (Molex for SK7)

Mechanical Drawing

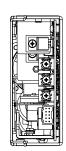


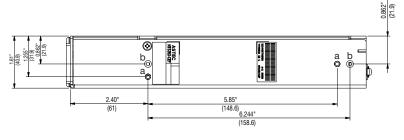
Mechanical Drawing - CEF option

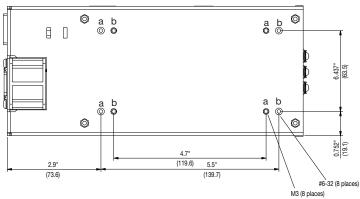




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