

# GETS DOWN



# LETS YOU DOWN



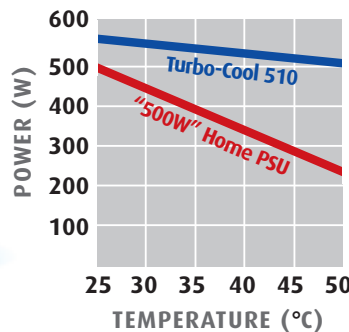
## Turbo-Cool® 510 Power Supply

## "500W" Home Power Supply

Power @ 25°C:	550W	500W	Rating requires room temp. < 55°F
Power @ 40°C:	525W	333W	40°C is a typical power supply temp.
Power @ 50°C:	510W	222W	50°C is the spec for a commercial PC
+12V Output:	34A/38A	24A	50% more power for CPUs and drives
Regulation:	1%	5%	Turbo-Cool's voltages are 5X tighter
Ripple:	10mv	50mv	Turbo-Cool's outputs are 5X cleaner
Active PFC:	Yes	No	Continuous range line conditioning
Voltage Pots:	Yes	No	Adjustments for system fine tuning
Intel Listed:	Yes	No	Turbo-Cool 510 tops Intel's ATX12V list
Warranty:	5-Years	1-Year	Reliability and longevity indicator



### Don't be Misled by Exaggerated Wattage Claims!



To properly compare power supplies, wattage claims must state the maximum ambient temperature for continuous, full-load operation. Unfortunately for the consumer, this information is usually withheld, opening the door for manufacturers to exaggerate their wattage claims. They do so by assuming an unrealistic ambient temp of only 25°C (77°F), even though the actual internal power supply temp is at least 40°C (104°F). Since the proper full-load rating is 15°C higher for home use and 25°C higher for industrial use, these power supplies produce **33%-50% less power than their advertised ratings**, as shown on the derating chart.

"Our Top Pick for a High-Wattage PSU is the Turbo-Cool® 510" – *Maximum PC*, April 2005

Turbo-Cool 510 operating temperature spec: full load @ 50°C.  
 "500W" Home PSU typical spec: full load @ 25°C, decrease to no load @ 70°C.

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