

# SDX-500-G48 Series

500W 48VDC Input ATX Power Supply



150 x 140 x 86 mm  
5.90 x 5.51 x 3.39 inch



## Features:

- \* Input and output isolation
- \* High efficiency and reliability
- \* Soft start function, low inrush current
- \* Input polarity reverse protection
- \* 3.3V & 5V VRM design
- \* -5V output option
- \* Over voltage, over load & short circuit protection
- \* With power good signal & PS-ON signal output
- \* 100% full load burn-in test
- \* Meet Intel ATX 2.31
- \* Meet LVD standard
- \* 3 years warranty

## Specification:

INPUT	<b>Voltage</b>	36V~72V (Typical 48V)						
	<b>Current</b>	<20A @ 36V DC input						
	<b>Protection</b>	Ceramic Fuse 25A/250V						
OUTPUT	<b>Voltage</b>	5V	3.3V	12V1	12V2	-5V	-12V	5Vsb
	<b>Min Load</b>	0A	0A	1A	0A	0A	0A	0A
	<b>Max Load</b>	20A	20A	18A	18A	0.5A	1A	3A
	<b>Output Tolerance</b> ②	±3%	±5%	±3%	±3%	±5%	±10%	±5%
	<b>Ripple Noise MAX.</b> ③	70mV	70mV	150mV	150mV	100mV	150mV	70mV
	<b>Efficiency (TYP.)</b>	82%						
	<b>Output MAX.</b>	3.3V & 5V max 125W, -5V & -12V max 12W, total output max 500W						
PROTECTION	<b>Over Voltage</b>	5.7V~6.5V	3.7V~4.1V	13.1V~14.5V		----	----	----
		Shutdown, it needs re-power on to recover						
	<b>Over current (MAX)</b>	25A	25A	22A	22A	----	----	----
	<b>Over Load &amp; ShortCircuit</b>	When power supply over 105%~ 150% max load or short circuit acted, power supply will be shutdown and latch off, recover after re-start up.						
ELEC. CHAR.	<b>Rise time</b>	<20mS						
	<b>Power good signal</b>	Power ON within 100---500ms, high level TTL Signal release.						
ENVIRONMENT	<b>Temperature</b> ④	Operating: -20 ~ 70°C ; De-rating: 50 ~ 70°C: 2.5%/°C ; Storage: -40~+85°C						
	<b>Humidity</b>	Operating: 20% ~ 90% (non condensing) RH; Storage: 10% ~ 95% RH (non condensing)						
SAFETY	<b>Withstand voltage</b>	I/P-O/P:4.0KVDC, I/P-FG:2.5KVDC, 1minute						
	<b>Isolation resistance</b>	I/P-O/P, I/P-FG, > 100MΩ/500VDC at 25°C / 70% RH						
EMC	<b>EMI</b>	EN 55032 CLASS A、FCC CFR 47 PART 15 CLASS A						
	<b>EMS</b>	EN 55035 : EN 61000-4-2,3,4,5,6,8						
OTHERS	<b>Cooling</b>	Forced airflow cooling with DC fan						
	<b>M.T.B.F.</b>	106 K hours						
	<b>Dimension</b>	150 x 140 x 86 mm (L*W*H)						
	<b>Packing</b>	N.W.: 1.8 Kg / 1pcs; 6 pcs/ 2.03 CUFT / 1 CTN						

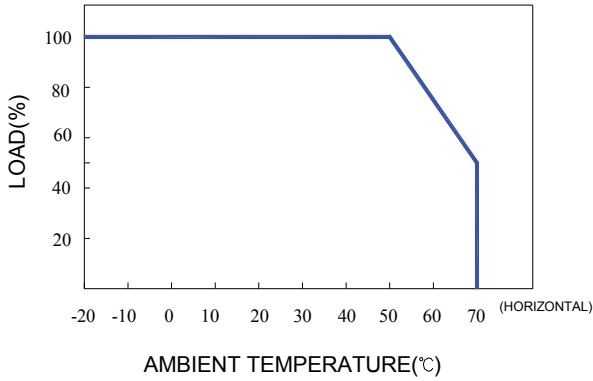
NOTE	① All measurements which not mentioned are based on 48VDC input, <b>output Max</b> at ambient 25°C / 70%RH.
	② Output tolerance included set up voltage, line regulation and load regulation. The regulation is measured between 20%-100% <b>max load</b> of each output, Total output must under <b>output Max</b> .
	③ Ripple & noise are measured at 10~50°C condition and 20MHz of bandwidth by using a 10" ~15" twisted pair-wire terminated with a 0.1uF & a 10uF parallel capacitor.
	④ The operating temperature shall follow the de-rating curve in spec
	⑤ The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.

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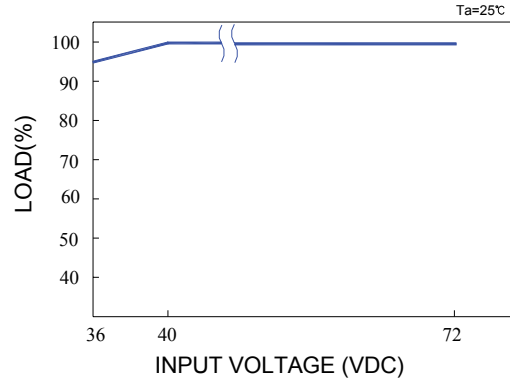
500W 48VDC Input ATX Power Supply



## De-rating Curve :

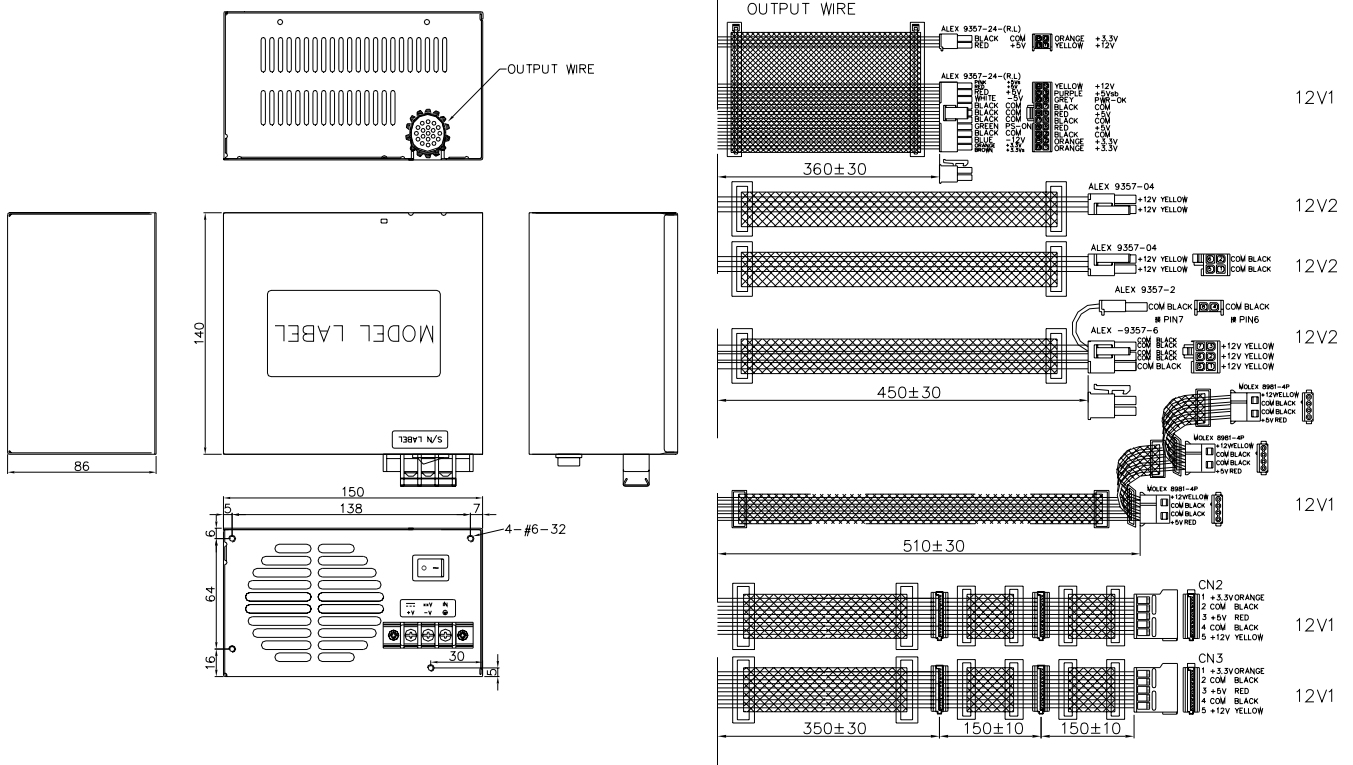


## Output De-rating Vs Input Voltage



## Dimension:

(Unit: mm)



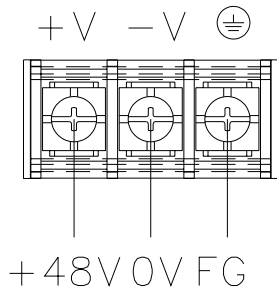
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## Input Voltage Connection:

A TYPE : +48V Input



B TYPE : -48V Input

