



**SUNPOWER TECHNOLOGY CORP.**  
 16F-1, No.150, Jian 1st Rd., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.).  
 TEL: 886-2-8226-3100 FAX: 886-2-8226-3111  
 http://www.sunpower.com.tw  
 E-mail: sunpower@sunpower.com.tw

# SDX-550-G48

**550W, Six Output  
 DC-DC for ATX System**



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
- \* Over voltage, over load & short circuit protection
- \* With power good signal & PS-ON signal output
- \* 100% full load burn-in test
- \* Meet Intel ATX 2.01 / ATX 2.31 / ATX 12V
- \* UL, cUL, TUV ,CB, CE standard
- \* 3 years warranty

### Specification:

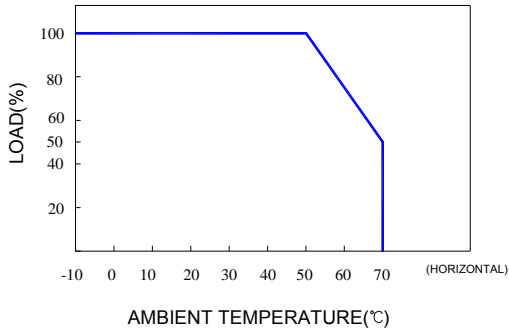
INPUT	Voltage	36V~72V (Typical 48V)						
	Current	<22A @ 36V DC input						
	Protection	Ceramic Fuse 30A/250V						
OUTPUT	Voltage	5V	3.3V	12V1	12V2	-5V	-12V	5Vsb
	Min Load	1A	0A	1A	0A	0A	0A	0A
	Max Load	25A	25A	17A	17A	0.5A	1A	2A
	Output Tolerance ②	±3%	±5%	±3%	±3%	±5%	±10%	±5%
	Ripple Noise MAX. ③	70mV	70mV	120mV	120mV	100mV	120mV	70mV
	Efficiency (TYP.)	76%						
PROTECTION	Output MAX.	3.3V & 5V max 130W, -5V & -12V max 12W, total output max 550W						
	Over Voltage	5.7V~6.5V	3.7V~4.1V	13.1V~14.5V		----	----	----
	Shutdown, it needs re-power on to recover							
	Over current (MAX)	32A	32A	22A	22A	----	----	----
ELEC. CHAR.	OverLoad & ShortCircuit	When power supply over 105%~ 150% max load or short circuit acted, power supply will be shutdown and recover automatically after the fault is removed.						
	Rise time	<20mS						
ENVIRONMENT	Power good signal	Power ON within 100---500ms, high level TTL Signal release.						
	Temperature ④	Operating: -10 ~ 70°C ; De-rating: 50 ~ 70°C : 2.5%/°C ; Storage: -20~+85°C						
SAFETY	Humidity	Operating: 20% ~ 90% (non condensing) RH; Storage: 10% ~ 95% RH (non condensing)						
	Withstand voltage	I/P-O/P:2.0KVAC, I/P-PE:1.5KVAC, 1minute						
EMC	Isolation resistance	I/P-O/P, I/P-PE, >100MΩ/500VDC at 25°C / 70% RH						
	EMI	EN 55022 CLASS B · FCC CFR 47 PART 15 CLASS B · CNS 13438 CLASS B.						
OTHERS	EMS	EN 55024 : EN 61000-4-2,3,4,5,6,8						
	Cooling	Forced airflow cooling with DC fan						
	M.T.B.F.	K hours						
	Dimension	150 x 140 x 86 mm (W*L*H)						
NOTE	Packing	N.W.: ---- Kg / 1pc;12 pcs/ 2.02 CUFT / 1 CTN						
	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 47uF 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.							



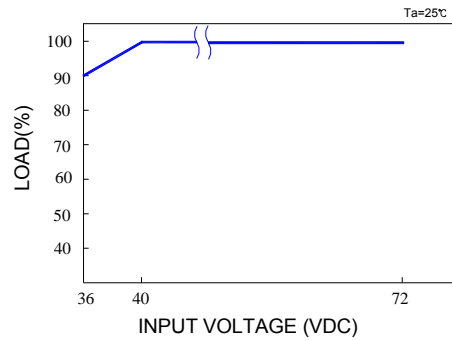
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# SDX-550-G48

## De-rating Curve :

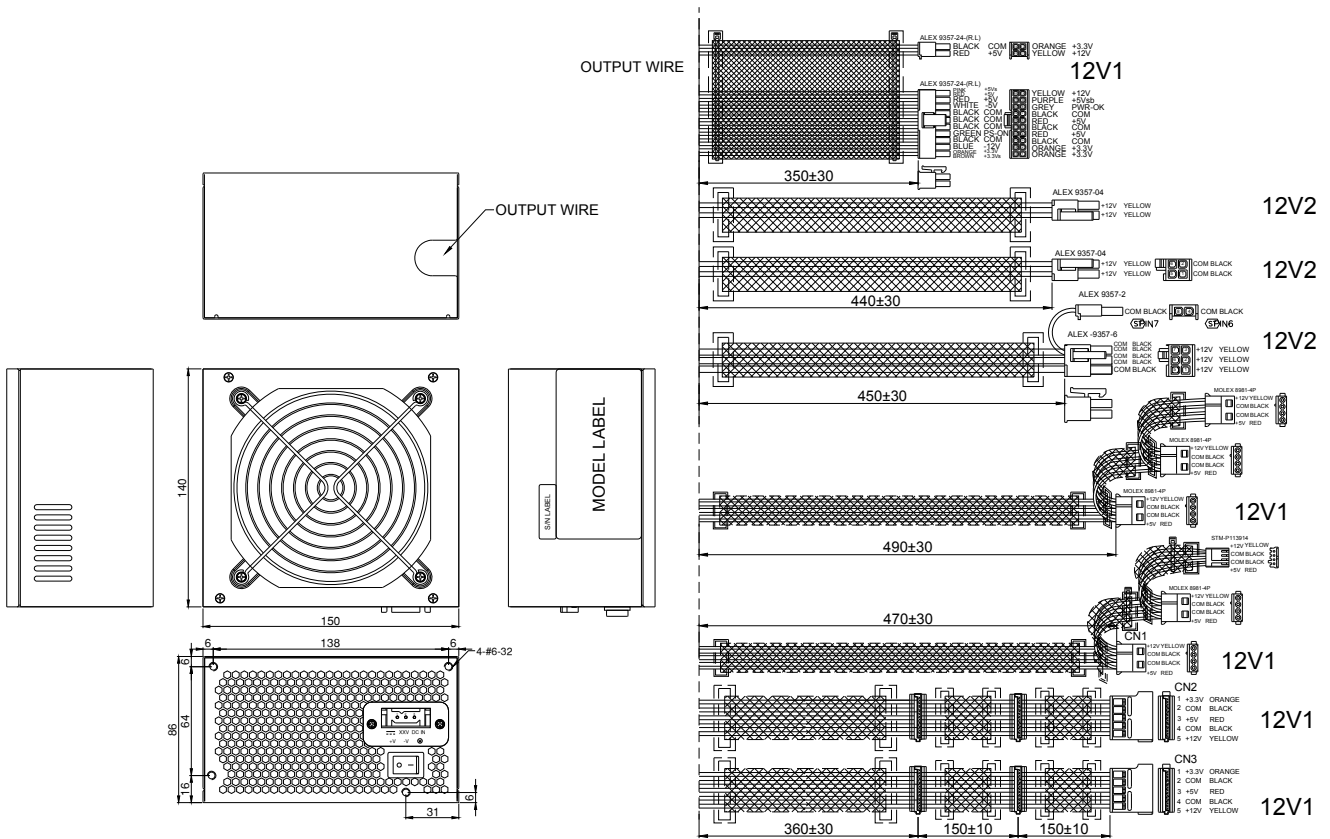


## Output De-rating Vs Input Voltage



## Dimension:

(Unit: mm)





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# SDX-650-G96

**650W, Six Output  
 DC-DC for ATX System**



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
- \* Over voltage, over load & short circuit protection
- \* With power good signal & PS-ON signal output
- \* 100% full load burn-in test
- \* Meet Intel ATX 2.01 / ATX 2.31 / ATX 12V
- \* UL, cUL, TUV ,CB, CE standard
- \* 3 years warranty

### Specification:

INPUT	Voltage	72V~144V (Typical 96V)						
	Current	<12A @ 72V DC input						
	Protection	Ceramic Fuse 15A/250V						
OUTPUT	Voltage	5V	3.3V	12V1	12V2	-5V	-12V	5Vsb
	Min Load	1A	0A	1A	0A	0A	0A	0A
	Max Load	25A	25A	20A	20A	0.5A	1A	3A
	Output Tolerance ②	±3%	±5%	±3%	±3%	±5%	±10%	±5%
	Ripple Noise MAX. ③	70mV	70mV	120mV	120mV	100mV	120mV	70mV
	Efficiency (TYP.)	80%						
PROTECTION	Output MAX.	3.3V & 5V max 145W, -5V & -12V max 12W, total output max 650W						
	Over Voltage	5.7V~6.5V	3.7V~4.1V	13.1V~14.5V		----	----	----
		Shutdown, it needs re-power on to recover						
	Over current (MAX)	32A	32A	26A	26A	----	----	----
ELEC. CHAR.	OverLoad & ShortCircuit	When power supply over 105%~ 150% max load or short circuit acted, power supply will be shutdown and recover automatically after the fault is removed.						
	Rise time	<20mS						
ENVIRONMENT	Power good signal	Power ON within 100---500ms, high level TTL Signal release.						
	Temperature ④	Operating: -10 ~ 70°C ; De-rating: 50 ~ 70°C : 2.5%/°C ; Storage: -20~+85°C						
SAFETY	Humidity	Operating: 20% ~ 90% (non condensing) RH; Storage: 10% ~ 95% RH (non condensing)						
	Withstand voltage	I/P-O/P:2.0KVAC, I/P-PE:1.5KVAC, 1minute						
EMC	Isolation resistance	I/P-O/P, I/P-PE, >100MΩ/500VDC at 25°C / 70% RH						
	EMI	EN 55022 CLASS B · FCC CFR 47 PART 15 CLASS B · CNS 13438 CLASS B.						
OTHERS	EMS	EN 55024 : EN 61000-4-2,3,4,5,6,8						
	Cooling	Forced airflow cooling with DC fan						
	M.T.B.F.	K hours						
	Dimension	150 x 140 x 86 mm (W*L*H)						
NOTE	Packing	N.W.: ---- Kg / 1pc;12 pcs/ 2.02 CUFT / 1 CTN						
		① All measurements which not mentioned are based on 96VDC 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 47uF 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.						

