



# SDX-350-48 SDX-425-48

**48V Input, 350W/425W  
DC-DC for ATX System**

SUNPOWER TECHNOLOGY CORP.  
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150 x 140 x 86 mm  
5.90 x 5.51 x 3.39 inch



### Features:

- \* Input and output isolation
- \* Soft start function, low inrush current
- \* Input polarity reverse protection
- \* Over voltage, over load & short circuit protection
- \* Built-in long life ball bearing fan
- \* 100% full load burn-in test
- \* Meet Intel ATX 2.01 / ATX 2.03 / ATX 12V
- \* LVD standard
- \* 2 year warranty

### Specification:

INPUT	MODEL No.	SDX-350-48						SDX-425-48					
	Voltage	36V~72V (Typical 48V)											
	Current	<14.3A@36VDC.						<17.4A@36VDC					
OUTPUT	Voltage	V1	V2	V3	V4	V5	V6	V1	V2	V3	V4	V5	V6
		<b>5 V</b>	<b>3.3V</b>	<b>12 V</b>	<b>-5 V</b>	<b>-12 V</b>	<b>5 Vsb</b>	<b>5 V</b>	<b>3.3V</b>	<b>12 V</b>	<b>-5 V</b>	<b>-12 V</b>	<b>5 Vsb</b>
	Min Load	0.75 A	0.5A	0.6 A	0 A	0 A	0 A	0.75 A	0.5 A	0.6 A	0 A	0 A	0 A
	TYP Load	20 A	15 A	16 A	0.5 A	1 A	3 A	27 A	20 A	17.5 A	0.5 A	1 A	3 A
	Max Load	30 A	25 A	18 A	0.5 A	1 A	3 A	40 A	28 A	20 A	0.5 A	1 A	3 A
	Output Tolerance ②	±5%	±5%	±5%	±10%	±10%	±5%	±5%	±5%	±5%	±10%	±10%	±5%
	Ripple Noise MAX. ③	70mV	70mV	120mV	100mV	150mV	70mV	70mV	70mV	120mV	100mV	150mV	70mV
Efficiency (TYP)	75%												
Output MAX.	3.3V & 5V max 150W ; total output max 350W						3.3V & 5V max 200W ; total output max 425W						
PROTECTION	Over Voltage	5.8 ~ 7.0V	3.8 ~ 4.6V	13.8 ~ 16.8V	---			5.8 ~ 7.0V	3.8 ~ 4.6V	13.8 ~ 16.8V	---		
	OverLoad & Short Circuit	Shutdown and latch off, recover after re-start up 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.											
ELEC. CHAR	Rise time	<20mS											
	Power Good signal	Power on within 100~500ms, high level TTL signal release.											
ENVIRONMENT	Temperature ④	Operating: -10~70°C; De-rating: 45°C ~70°C : 2.5%/°C. ; Storage: -20~+85°C											
	Humidity	Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH (non condensing)											
SAFETY	Withstand voltage	I/P-O/P:2.0KVAC, I/P-FG:1KVAC, 1minute											
	Isolation resistance	I/P-O/P, I/P-FG, > 100MΩ/500VDC at 25°C/ 70% RH											
	Safety standard	IEC 60950-1 : 2005(Second Edition) + Am 1 : 2009 + Am 2 : 2013 and/or EN 60950-1 : 2006+A11 : 2009+A1 : 2010+A12 : 2011+A2 : 2013 standard											
EMC	EMI	EN 55022 CLASS B · FCC CFR 47 PART 15 CLASS B · CNS 13438 CLASS B.											
	EMS	EN 55024 : EN 61000-4-2,3,4,6,8 ; ENV 50204											
OTHERS	Cooling	Forced airflow cooling with a DC fan											
	M.T.B.F.	188K hours											
	Dimension	150 x 140 x 86 mm (W*L*H)											
	PACKING	N.W.: 1.84 Kg / 1pc; 6 pcs / 1.44 CUFT / 1 CTN											
NOTE	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 at the condition : when any of output is with 20% ~ 100% <b>max load</b> and the rest of each outputs are with 60% <b>max load</b> , Each output could work within <b>max load</b> but must under total <b>output max</b> .												
	③ Ripple & noise are measured at 72~144VDC input with 10~50°C condition and 20MHz of bandwidth by terminated using a 10" ~15" twisted pair-wire 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.												



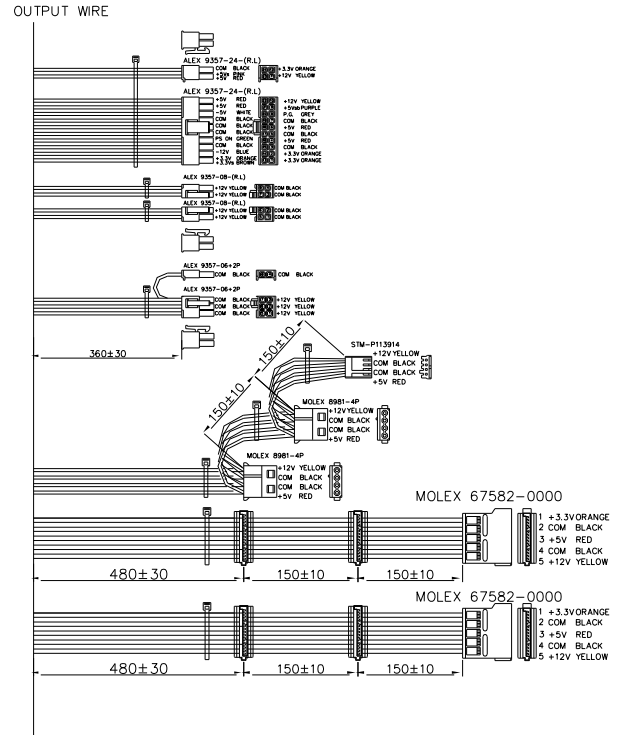
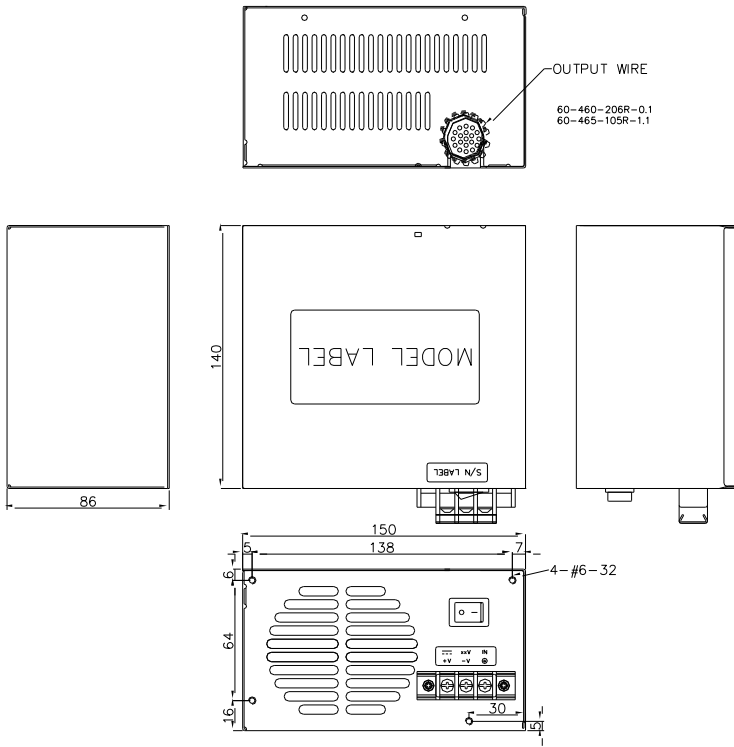


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### Input Voltage Connection:

**A TPYE : +48V Input**

**B TPYE : -48V Input**

