



SUNPOWER TECHNOLOGY CORP.
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SDX-300 Series

**24V / 48V / 96V Input, DC-DC
 Power Supply for ATX System**



150 x 140 x 86mm

5.90 x 5.51 x 3.39inch



UL CB CE (48V only)

Features:

High efficiency, high reliability
2:1 input range
input and output isolation
Soft start function, low inrush current
input over voltage and under voltage protection
Over load, over voltage & short circuit protection
+3.3V, +5V main output remote sensing
Meet intel ATX 2.01 / 2.03
FR4 glass epoxy double side circuit board, meet UL-94V0, which could work in an environment with high vibration
Built-in long life ball bearing fan
100% 50 burn-in test
Meet EMI EN55022 EMS EN55024 LVD standard
UL, cUL, TUV, CB, CE approved (48V only)
1 years warranty

Specification:

INPUT	Voltage	SDX-300-24: 19V~32V DC		SDX-300-48: 40V~72V DC		SDX-300-96: 72V~144V DC.		
	Current	SDX-300-24: <24.8A@19VDC		SDX-300-48: <13A@40VDC		SDX-300-96: <5.9A@72VDC.		
OUTPUT	Voltage	V1 +3.3 V	V2 +5 V	V3 +12 V	V4 -5 V	V5 -12 V	V6 +5 Vsb	
	Min. Load	SDX-300-24	0.2 A	3 A	0.5 A	0 A		
		SDX-300-48	0.5 A	3 A	1 A			
		SDX-300-96	0.5 A	3 A	1 A			
	Max. Load	SDX-300-24	25 A	30 A	18 A	8 A	2.7 A	1.5 A
		SDX-300-48	30 A	35 A	18 A	0.5 A	1 A	1.5 A
		SDX-300-96						
	Regulation	SDX-300-24 & 96	±5%				±10%	±5%
		SDX-300-48					+10/-8%	
	Ripple & Noise (MAX.)	50mV	50mV	120mV	70mV	150mV	50mV	
Efficiency (TYP)	SDX-300-24: 64% SDX-300-48: 68% SDX-300-96: 72%.							
PROTECTION	Input protection	SDX-300-24	Ceramic fuse, 30A / 125V.					
		SDX-300-48	Ceramic fuse, 15A / 250V.					
		SDX-300-96	Ceramic fuse, 8A / 250V.					
	Over Load Protection	Over 105% ~ 150% of rating, shutdown						
	Over Voltage Protection	+3.8V~+4.6V	+5.8V~+7.0V	+13.8~+17.5V	---	---	---	
	Short Circuit Protection	Shutdown.						
OTHERS	Input Voltage Protection Shutdown	SDX-300-24	Under Voltage Protection	<15V~18V	Over Voltage Protection	>37V~41V.		
		SDX-300-48	Under Voltage Protection	<32V~36V	Over Voltage Protection	>72~78V.		
		SDX-300-96	----					
	Rise time	<20Ms						
	TTL Signal	Power Good Signal , PS-ON Input Signal .						
	Cooling	Built-in a 36CFM DC ball bearing fan.						
Environment	Temperature	Operating: -10~70		Derating: 45 ~70 : 2.0%/		Storage: -10~+75 .		
	Humidity	Operating: 20% ~ 85% Storage: 10% ~ 95% (non condensing).						
M.T.B.F.	SDX-300-24:170K	SDX-300-48: 110K	SDX-300-96: 188K .					
SAFETY	UL 1950 3 rd , CSA C22.2 No.950 3 rd , TUV EN 60950, IEC 60950, EMKO-TSE (74-SEC)207/94 Approved. (48 V only)							
EMC	EMI Standards	FCC CFR 47 PART 15 CLASS B EN 55022 CLASS B CNS 13438 CALSS B.						
	EMS Standards	EN 55024 EN 61000-4-2,3,4,5,6,8						



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