



SUNPOWER TECHNOLOGY CORP.
16F-1, No.150, Jian Yi Rd., Chung Ho City, Taipei Hsien, 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-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



(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°C 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	V2	V3	V4	V5	V6	
			+3.3 V	+5 V	+12 V	-5 V	-12 V	+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							
	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.						
	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		-----							
OTHERS	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						



SDX-300 Series

