

SDX-250-24

SDX-300-24

250/300W, 24V Input
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
- * Soft start function, low inrush current
- * Input over voltage and under voltage protection
- * Over voltage, over load & short circuit protection
- * Input polarity reverse protection
- * 3.3V, 5V main output remote sensing
- * Meet Intel ATX 2.01 / ATX 2.03 / ATX 12V
- * 100% full load burn-in test
- * 1 year warranty

Specification:

	Model No.	SDX-250-24						SDX-300-24					
INPUT	Voltage	19V~32V (Typical 24V)											
	Current	<21A@19V DC						<26.3A@19VDC					
	Protection	CERAMIC FUSE,25A/250V						CERAMIC FUSE 30A / 250V					
OUTPUT	OUTPUT	V1	V2	V3	V4	V5	V6	V1	V2	V3	V4	V5	V6
	Voltage	5V	3.3V	12V	-5V	-12V	5Vsb	5V	3.3V	12V	-5V	-12V	5Vsb
	Min Load	3 A	0.5 A	1 A	0 A	0 A	0 A	3 A	0.2 A	0.5 A	0 A	0 A	0 A
	Max Load	30 A	25 A	12 A	0.5 A	1 A	1 A	30 A	25 A	18 A	0.5 A	1 A	1.5 A
	Output Tolerance ②	+5/-4%	±5%	±5%	±5%	+10/-8%	±5%	±5%	±5%	±5%	±5%	±10%	±5%
	Ripple Noise MAX ③	70mV	70mV	120mV	100mV	150mV	70mV	70mV	70mV	120mV	70mV	150mV	70mV
	Efficiency (TYP.)	69%						66%					
	Output MAX.	250W						300W					
	Over Voltage	5.8V ~ 7.0V	3.8V ~ 4.6V	13.8V~ 16.8V	---	---	---	5.8V~ 7.0V	3.8V~ 4.6V	13.8~ 16.8V	---	---	---
	Protection	Shutdown, it needs re-power on to recover											
	Input Voltage	Under Voltage Protection : <15V-18V · Over Voltage Protection : >33V-36V.											
	Over Load & Short Circuit	When power supply over 105%~ 180% 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.											
	PS-ON signal	P/S ON : PS-ON=LOW or < 0.8V ; P/S OFF : PS-ON=HI or >2V											
ENVIRONMENT	Temperature ④	Operating: -10 ~ 70°C ; De-rating: 45 ~ 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											
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											
	Cooling	Forced airflow cooling with a DC fan											
OTHERS	M.T.B.F.	170K hours											
	Dimension	150 x 140 x 86 mm (W*L*H)											
	Packing	N.W.: 1.98 Kg / 1pc; 6 pcs / 1.44 CUFT / 1 CTN											
NOTE	①	All measurements which not mentioned are based on 24VDC input, output Max 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% max load and the rest of each outputs are with 60% max load, Each output could work within max load but must under total output max.											
	③	Ripple & noise are measured at 21~32VDC 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.											