



SUNPOWER TECHNOLOGY CORP.
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SDX-450-G24

450W, 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 reverse polarity 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 2.31
- * UL, cUL, CB, CE standard
- * 3 years warranty

Specification:

INPUT	Voltage	19V ~ 36V DC (Typical 24V)						
	Current	<26.2A @ 23V DC input,						
	Protection	Ceramic Fuse 40A/250V						
OUTPUT	Voltage	5V	3.3V	12V1	12V2	-5V	-12V	5Vsb
	Min Load	0A	0A	0.5A	0A	0A	0A	0A
	Max Load	23A	20A	17A	17A	0.5A	1A	2.5A
	Output Tolerance ②	±3%	±5%	±3%	±3%	±5%	±10%	±5%
	Ripple Noise MAX. ③	70mV	70mV	150mV	150mV	100mV	150mV	70mV
	Efficiency (TYP.)	82%						
OUTPUT	Output MAX.	Input Voltage : 19V ~ 23V total output max 400W ; Input Voltage : 23V ~ 36V total output max 450W 3.3V & 5V max 125W, -5V & -12V max 12W						
PROTECTION	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)	30A	25A	20A	20A	----	----	----
PROTECTION	Over Load & Short Circuit	When power supply over 105%~ 150% max load or short circuit acted, power supply will be shutdown and latch off, recover after re-start up.						
ELEC. CHAR.	Rise time	<20mS						
	Power good signal	Power ON within 100---500ms, high level TTL Signal release.						
ENVIRONMENT	Temperature ④	Operating: -20 ~ 70°C ; De-rating: 45 ~ 70°C : 2.5%/°C ; Storage: -40~+85°C						
	Humidity	Operating: 20% ~ 90% (non condensing) RH; Storage: 10% ~ 95% RH (non condensing)						
SAFETY	Withstand voltage	I/P-O/P:3.0KVAC, I/P-FG:1.5KVAC, 1minute						
	Isolation resistance	I/P-O/P, I/P-FG, > 100MΩ/500VDC at 25°C/ 70% RH						
EMC	EMI	EN 55032 CLASS B · FCC CFR 47 PART 15 CLASS B · CNS 13438 CLASS B.						
	EMS	EN 55024 : EN 61000-4-2,3,4,5,6,8						
OTHERS	Cooling	Forced airflow cooling with DC fan						
	M.T.B.F.	215 K hours (min)						
	Dimension	150 x 140 x 86 mm (L*W*H)						
	Packing	N.W.: 2.1 Kg / 1pc; 6 pcs/ 2.03 CUFT / 1 CTN						

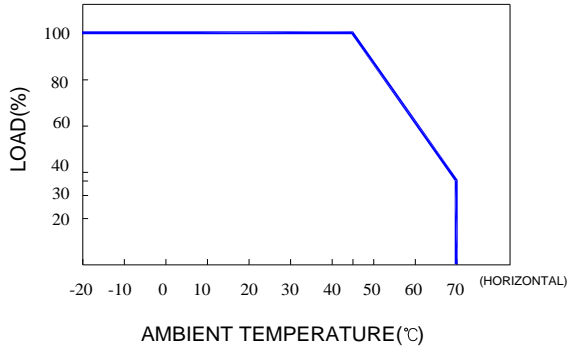
- NOTE
- ① All measurements which not mentioned are based on 24VDC input, **output Max** at ambient 25°C / 70%RH.
 - ② Output tolerance included set up voltage, line regulation and load regulation.
The regulation is measured between 20%-100% **max load** of each output, Total output must under **output Max**.
 - 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 10uF 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.



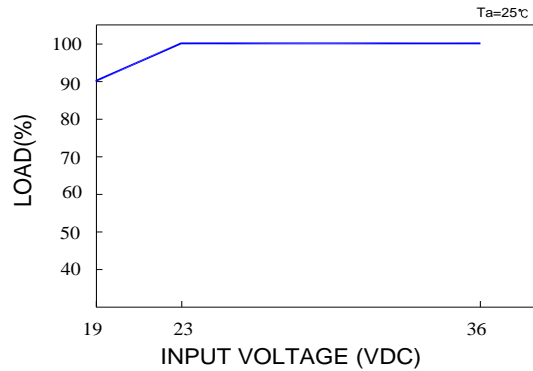
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De-rating Curve : E2



Output De-rating Vs Input Voltage : DD14



Dimension:

(Unit: mm)

OPTION

35-254-643R
 35-254-644R

The voltage drop was caused by wire loss ;
 Test under full load and typical condition of specification

