

SDX-6170-12

170W, 12V Input

DC-DC for Industrial 1U



205 x 100 x 40.5 mm
8.07 x 3.94 x 1.60 inch



Features:

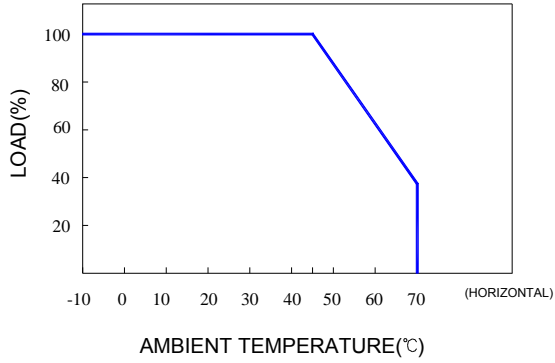
- * Input and output isolation
- * Soft start function, low inrush current
- * Over voltage protection
- * Over load & short circuit protection
- * Built-in long life ball bearing FAN
- * 100% full load burn-in test
- * Meet Intel ATX 2.01 / ATX2.03 / ATX 12V / EPS
- * Meet LVD standard
- * CB, CE approved

Specification:

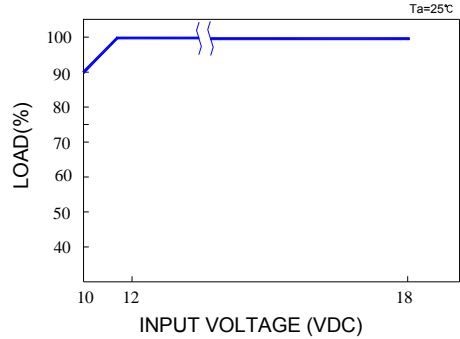
INPUT	Voltage	10V ~18V DC (Typical 12V)					
	Current	<24.7A@12VDC full load condition					
	Protection	Fuse, 30A/250V					
OUTPUT	OUTPUT	V1	V2	V3	V4	V5	V6
	Voltage	5V	3.3V	12V	-5V	-12V	5V sb
	Min. Load	3A	0A	1A	0A	0A	0A
	Max. Load	18A	10A	10A	0.5A	0.8A	2.0A
	Output Tolerance ②	± 5 %	± 5 %	± 5 %	± 5 %	± 10%	± 5 %
	Ripple Noise MAX. ③	70mV	70mV	150mV	100mV	200mV	100mV
	Efficiency (TYP.)	63%					
PROTECTION	Output MAX.	3.3V & 5V total output max 100W. -5V & -12V total output max 12W. Total output max 170W.					
	Over Voltage	5.8V ~ 7.0V	3.8V ~ 4.6V	13.8V ~ 16.8V	---	---	---
ELEC. CHAR.	Over Load & Short Circuit	When power supply over 105%~ 180% max load or short circuit acted, power supply will go into shutdown mode and recover automatically after the fault is removed.					
	Rise time	<100mS					
ENVIRONMENT	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					
SAFETY	Temperature ④	Operating: -10 ~ 70°C ; De-rating: 45 ~ 70°C : 2.5%/°C ; Storage: -20 ~ 85°C					
	Humidity	Operating: 20% ~ 85% RH; Storage: 10% ~ 95% RH (non condensing)					
EMC	Withstand voltage	I/P-O/P:2.0KVAC, I/P-PE:1KVAC, 1minute					
	Isolation resistance	I/P-O/P, I/P-PE, > 100MΩ/500VDC at 25°C/ 70% RH					
OTHERS	Safety standard	IEC 60950-1 approved					
	EMI	EN 55022 CLASS B · FCC CFR 47 PART 15 CLASS B · CNS 13438 CLASS B.					
NOTE	EMS	EN 55024 : EN 61000-4-2,3,4,6,8 ; ENV 50204					
	Cooling	Forced airflow cooling with DC fan					
	M.T.B.F.	128K hours					
	Dimension	205 x 100 x 40.5 (L*W*H)					
NOTE	Packing	N.W.: 1.44 Kg / 1pc; 12 pcs / 1.78 CUFT / 1 CTN					
	①	All measurements which not mentioned are based on 12VDC 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 11 ~ 18VDC input with 0~50°C condition and 20MHz of bandwidth by terminated using a 10" ~15" twisted pair-wire with a 0.1uF & a 47uF parallel capacitor.					
NOTE	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 :



Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)

