

SDU-100BD Series

100W 18-56VDC Input Dual Output U Bracket Converter



100W, Dual output

18~56 DC Input

U Bracket Power Supply



133.5 x 84 x 38 mm

5.26 x 3.3 x 1.5 inch



Features:

- * Low inrush current, soft start function
- * Input & output isolation
- * Input polarity reverse protection
- * Over voltage, over load & short circuit protection
- * 100% full load burn-in test
- * Meet LVD standard
- * UL, cUL, CE approved
- * 2 years warranty

Specification:

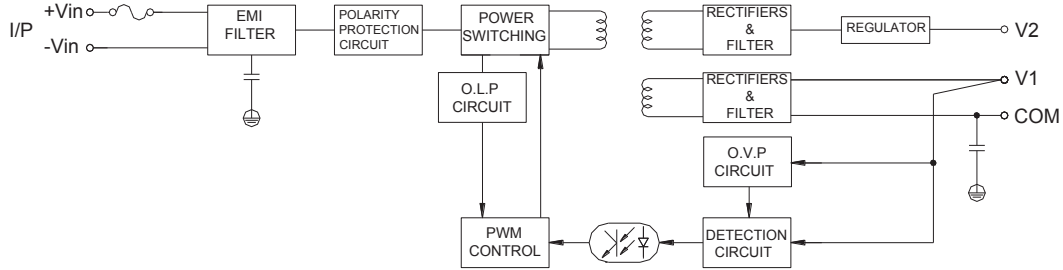
INPUT	Voltage	18 ~ 56V DC (Typical 24V)			
	Current	<8.0A@18V DC input , full load condition			
	Protection	Fuse, 12A/250V			
OUTPUT	MODEL No.	SDU-100BD1		SDU-100BD2	
	Voltage	5V	12V	5V	24V
	Min Load	2A	0A	2A	0A
	Max Load	16A	2.2A	16A	1.5A
	Output Tolerance ②	±3%	±5%	±3%	±5%
	Ripple Noise MAX. ③	70mV	120mV	70mV	200mV
	Efficiency (TYP.)	72%			
PROTECTION	Output MAX.	Natural cooling: 80W; forced air cooling: 100W			
	Over Voltage	5.8~7.0V	----	5.8~7.0V	----
	Over Load & Short Circuit	Hiccup and recovers automatically after the fault is removed. When power supply over 105%~ 180% max load or short circuit acted, power supply will go into hiccup mode and recover automatically after the fault is removed.			
ELEC.CHAR.	Rise time	<20mS			
ENVIRONMENT	Temperature ④	Operating: -10~70°C; De-rating: 45°C ~ 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:0.5KVDC, 1minute			
	Isolation resistance	I/P-O/P, I/P-FG, > 100MΩ/500VDC at 25°C / 70% RH			
	Safety standard	UL 60950-1, CSA C22.2 No.60950-1-03, approved. (For SDU-100BD1 only)			
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			
OTHERS	Cooling	Natural Cooling, When exceed output 80W, a 16 CFM (MIN.) DC fan is required.			
	M.T.B.F	275K hours			
	Dimension	133.5 x 84 x 38 mm (L*W*H)			
	Packing	N.W.: 0.5KG/1PC ; 30PCS / 1.20 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 21~56VDC input with 10~50°C condition and 20MHz of bandwidth by using a 10" ~15" twisted pair-wire terminated 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.				

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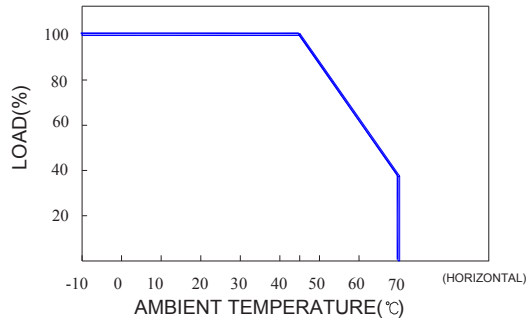
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Block Diagram : DD1

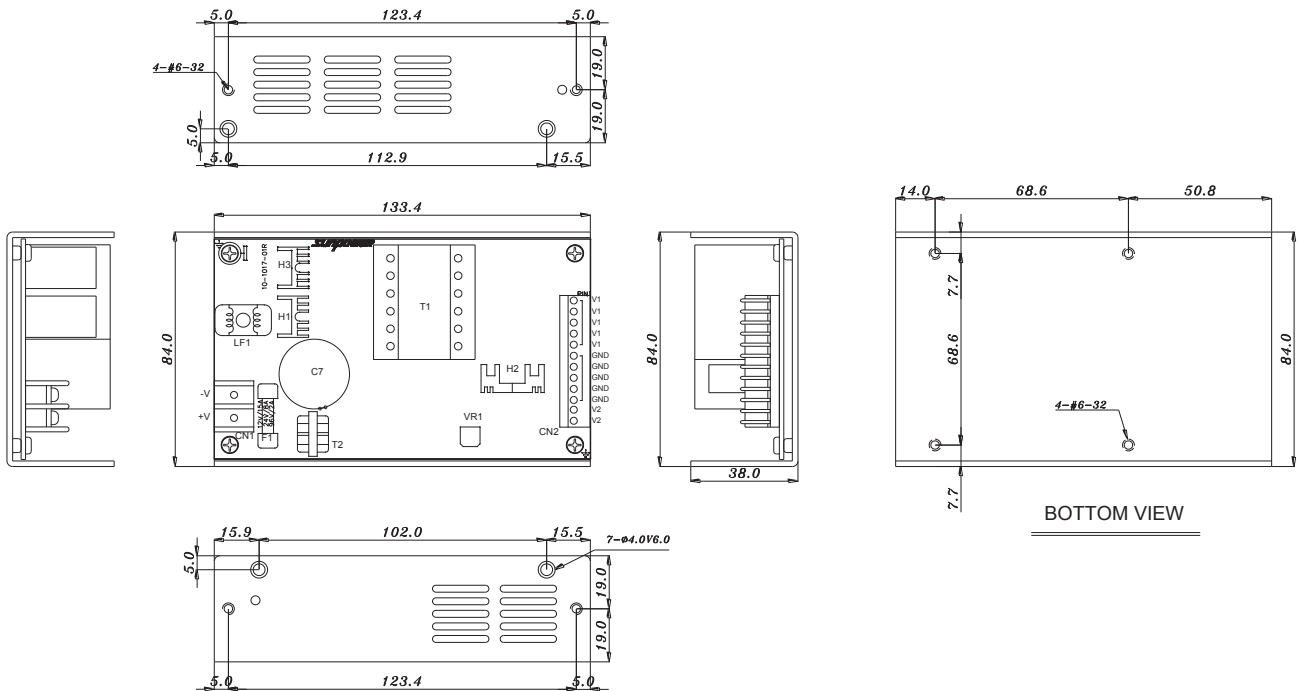


De-rating Curve :



Dimension:

(Unit: mm)



NOTES:

- I/P: CN1, TML 2P P:8.25mm
- O/P: CN2, BASE 12P P:3.96mm