

SDS-060B Series - 60W Single Output Enclosed DC-DC Converter

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Features

- 24V DC Input
- Input under voltage protection
- Input polarity reverse protection
- Soft start function, low inrush current
- Over load, over voltage, short circuit protection
- Output voltage $\pm 10\%$ adjustment
- No minimum load requirement
- 100% 50°C burn-in test
- Meets UL, cUL, TUV standards
- High efficiency, high reliability
- Light weight

Standards



Specification

Input Range	18VDC ~ 36V DC (Typically 24V)
Input Current	<4.6A@18V DC 6.3A/250V
Input Protection	Ceramic fuse 6.3A/205V
Over Voltage Protection	Unit will shutdown if an over voltage conditions occurs. Auto recovery once fault is removed
Over Load Protection	105% ~ 180% of rated output. Auto recovery
Short Circuit Protection	Unit will shutdown if a short circuit conditions occurs. Auto recovery once fault is removed
Input Voltage Protection	<15VDC ~ 17VDC Unit will shutdown
Rise Time	<20ms
Cooling	Natural cooling
Operation Temperature	0°C to +70°C, derating: 45°C~70°C:2%/°
Storage Temperature	-10°C to +75°C
Operation Humidity	20% to 85% RH non condensing
Storage Humidity	10%~95% non condensing
MTBF	>340,000 hours
Safety	UL60950, CSA C22.2 No 60950, TUV EN 60 950, IEC 60950, EMKO-TSE (74-SEC)207/94
EMI	FCC CFR 47 PART 15 Class B, EN 50081-1, CNS 13438 Class B, EN50082-1 (1997)
EMS	EN 55024 : EN 6100-4-2,3,4,5,6,8.

Items

SDS-060B Series

Part No	Voltage	Max Load	Regulation	Ripple Noise (MAX)	Efficiency (TYP)	Max Power	Over Voltage Protection
<u>SDS-060B3.3</u>	3.3V	15A	±3%	50mV	68%	50W	3.8V ~ 4.6V
<u>SDS-060B05</u>	5V	12A	±2%	50mV	74%	60W	5.8V ~ 7.0V
<u>SDS-060B12</u>	12V	5A	±1%	100mV	76%	60W	13.8V ~ 17.5V
<u>SDS-060B15</u>	15V	4A	±1%	120mV	76%	60W	17.3V ~ 21.0V
<u>SDS-060B24</u>	24V	2.5A	±1%	150mV	76%	60W	27.6V ~ 33.6V
<u>SDS-060B48</u>	48V	1.3A	±1%	240mV	76%	60W	55.2V ~ 67.2V