

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

[Home](#) > [Products](#) > [Enclosed](#) > 60W Single Output Enclosed DC-DC Converter

Features

- 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 Voltage	9.5VDC ~ 18VDC (Typically 12V)
Input Current	<10A@9.5V DC 15A/125V
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 Protection	Ceramic fuse 15A/125V
Rise Time	<20ms
Cooling	Natural cooling
Operation Temperature	0°C to +70°C, derating: 45°C~70°C:2%/°C
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	EN 55022 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.

Items

SDS-060A Series

Part No	Voltage	Max Load	Regulation	Ripple Noise (MAX)	Efficiency (TYP)	Max Power	Over Voltage Protection
<u>SDS-060A3.3</u>	3.3V	15A	±3±	50mV	62%	50W	3.8 ~ 4.6V
<u>SDS-060A05</u>	5V	12A	±2%	50mV	64%	60W	5.8 ~ 7.0V
<u>SDS-060A12</u>	12V	5A	±1%	100mV	66%	60W	13.8 ~ 17.5V
<u>SDS-060A15</u>	15V	4A	±1%	120mV	76%	60W	17.3 ~ 21.0V
<u>SDS-060A24</u>	24V	2.5A	±1%	150mV	68%	60W	27.6 ~ 33.6V
<u>SDS-060A48</u>	48V	1.3A	±1%	240mV	70%	60W	55.2 ~ 67.2V