

SD-50 Series

50W Single Output DC-DC Converter



FEATURES

- 2:1 wide input range
- Short circuit / overload / over voltage protections
- 1500VDC I/O isolation
- Built in EMI filter, low ripple & noise
- 100% full load burn-in test
- Fixed switching frequency at 83kHz
- Low cost
- High reliability

ENVIRONMENTAL

Operating Temp: -10 to +60°C
With de-rating

Storage Temp: -20 to +85°C

SAFETY / EMC

Design refers to LVD

EN55022 Class B

EN61000-4-2, 3, 4, 6, 8

ENV50204 / EN55024 / heavy industry level / criteria A

ELECTRICAL SPECIFICATIONS

Model No.	SD-50A-5	SD-50B-5	SD-50C-5	SD-50A-12	SD-50B-12	SD-50C-12	SD-50A-24	SD-50B-24	SD-50C-24
Input Voltage Range	A: 9.2 ~ 18VDC / B: 19 ~ 36VDC / C: 36 ~ 72VDC								
Input Current	7A at 12VDC / 3A at 24VDC / 1.5A at 48VDC								
DC Output									
Voltage	5V			12V			24V		
Current	0 ~ 10A			0 ~ 4.2A			0 ~ 2.1A		
Rated Power	50W			50.4W			50.4W		
Ripple & noise (p-p)	100mV			120mV			150mV		
Voltage Tolerance	±2.0%			±1.0%			±1.0%		
Line Regulation	±0.5%			±0.3%			±0.2%		
Load Regulation	±0.5%			±0.3%			±0.2%		
Overload	105~150% rated output power. Foldback current limiting. Recovers automatically when condition removed.								
Over Voltage	5.75 ~ 6.75V / 10% load			16.8 ~ 20V / 10% load			31.5 ~ 37.5V / 10% load		
Dimensions	Hiccup mode. Recovers automatically when condition removed.								
Weight	159(L) x 97(W) x 38(H)mm								
	0.53Kg								

Specifications subject to change without notice

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