



## SDS-100B Series - 100W Single Output Enclosed DC-DC Converter

[Home](#) > [Products](#) > [Enclosed](#) > 100W Single Output Enclosed DC-DC Converter

Features	Standards
<ul style="list-style-type: none"><li>24V DC Input</li><li>Inrush current limitation soft start function</li><li>Input &amp; output isolation</li><li>Input polarity reverse protection</li><li>Input under / over voltage protection</li><li>Over load, over voltage &amp; short circuit protection</li><li>FR4 glas epoxy double side circuit board, meets UL-94V0 which could work in an environment with high vibration</li><li>Current sharing (optional)</li><li>Output voltage <math>\pm 10\%</math> adjustment</li><li>100% 50°C burn-in test</li><li>Meets UL, cUL, TUV, CB, CE standard</li></ul>	 

Specification	
<b>Input Voltage</b>	19VDC ~ 36VDC. Typical 24V.
<b>Input Current</b>	<8A@19V DC
<b>Inrush Current</b>	<30A@24V DC
<b>Under Input Voltage</b>	<15VDC ~ 18VDC
<b>Over Input Voltag</b>	>37VDC ~ 42VDC
<b>Over Load Protection</b>	Over 105% ~ 180% of rating, recovers automatically after fault condition has been removed.
<b>Short Circuit Protection</b>	Shutdown, recovers automatically after fault condition has been removed.
<b>Rise Time</b>	<50mS
<b>Current Sharings</b>	Optional
<b>Cooling</b>	Natural Cooling
<b>Operating Temperature</b>	0°C ~ 70°C; derating: 50°C ~70°C : 2.5%/°C.
<b>Operating Humidity</b>	20% ~ 85% non condensing
<b>Storage Temperature</b>	-10°C ~ +75°C
<b>Storage Humidity</b>	Storage: 10% ~ 95% non condensing
<b>M.T.B.F.</b>	262K hours
<b>Safety</b>	Meet UL 60950, CSA C22.2 No.60950, TUV EN 60950, IEC 60950, EMKO-TSE (74-SEC)207/94
<b>EMI</b>	EN 55022 CLASS B FCC CFR 47 PART 15 CLASS B CNS 13438 CLASS B
<b>EMS</b>	EN 55024 : EN 61000-4-2-,3,4,5,6,8.

## Items

### SDS- 100B Series

Part No	Voltage	Min Load	Max Load	Regulation	Ripple Noise (MAX)	Efficiency (TYP)	Max Power	Over Voltage Protection
<a href="#">SDS-100B3.3</a>	3.3V	0A	25A	±3%	40mV	68%	83W	3.8V ~ 4.6V
<a href="#">SDS-100B05</a>	5V	0A	20A	±2%	50mV	72%	100W	5.8V ~ 7.0V
<a href="#">SDS-100B12</a>	12V	0A	8.5A	±1%	100mV	75%	100W	13.8V ~ 17.5V
<a href="#">SDS-100B24</a>	24V	0A	4.2A	±1%	150mV	78%	100W	27.6V ~ 33.6V
<a href="#">SDS-100B48</a>	48V	0A	2.1A	±1%	250mV	84%	100W	55.2V ~ 67.2V