

## SD-15B Series - 15W 18~36VDC Input Single Output DC-DC Converter

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### Features

- 2:1 wide input range
- Short circuit/Over load/Over voltage protection
- 3000VDC I/O isolation
- Cooling by free air convection
- Built in EMI filter, low ripple noise
- 100% full load burn-in test
- Fixed switching frequency at 83KHz
- Miniature profile

### Standards



### Applications

- General electrical engineering
- Automotive
- Security
- Battery back-up

### Case Details

79 x 51 x 28mm

### Specification

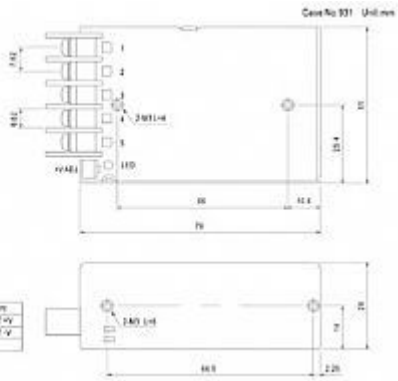
<b>Input Voltage Range</b>	18~36VDC
<b>Input DC Current</b>	0.9A/24VDC typically
<b>Setup, Rise, Holdup Time</b>	2.5s, 25ms on 12VDC & 24VDC o/p at full load
<b>Over Load Protection</b>	105% ~ 160% rated output power Hiccup mode , recovers automatically after fault condition is removed
<b>Over Voltage Protection</b>	Shut down o/p voltage, re-power on to recover
<b>Working Temperature</b>	-10~+60°C (refer to output load derating curve)
<b>Working Humidity</b>	20 ~ 90% RH non-condensing
<b>Storage Temp., Humidity</b>	-20 ~+85°C, 10 ~ 95% RH
<b>Temperature Coefficient</b>	±0.03% /°C (0 ~ 50°C)
<b>Vibration</b>	10 ~ 500Hz, 2G 10min./1 cycle, 60 min. each along X, Y, Z axes
<b>Withstand Voltage</b>	I/P-O/P:3KVAC, I/P-FG:1.5KVAC, O/P-FG:0.8KVAC
<b>Isolation Resistance</b>	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC
<b>Safety Standards</b>	Design refer to LVD
<b>EMS Standards</b>	Compliance to EN55022 (CISPR22) Class B, EN61000-4-2,3,4,6,8; EN55024, EN55024, light industry level, Criteria A
<b>Dimensions</b>	79 x 51 x 28mm

Items

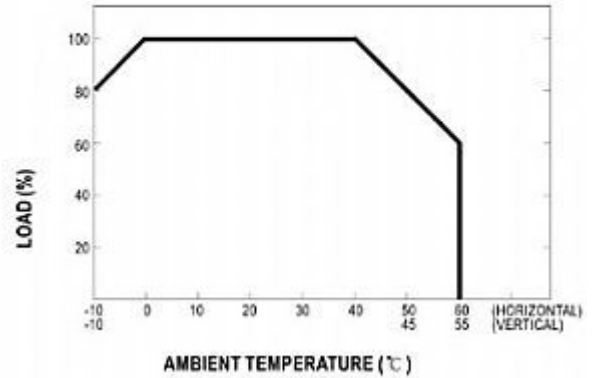
SD-15B Series Output Data

Part Code	DC Voltage	Rated Current	Current Range	Rated Power	R & N (max)	Volt Adj.
SD-15B-5	5V	3A	0 ~ 3A	15W	100mV	4.75 ~ 5.5VDC
SD-15B-12	12V	1.25A	0 ~ 1.25A	15W	120mV	10.8~13.2VDC
SD-15B-24	24V	0.625A	0 ~ 0.625A	15W	150mV	21.6~26.4VDC
Part Code	Tol.	Line Reg.	Load Reg.	Eff.	OVP	
SD-15B-5	±2.0%	±0.5%	±0.5%	76%	5.75~6.75V	
SD-15B-12	±1.0%	±0.3%	±0.3%	76%	13.8~16.2V	
SD-15B-24	±1.0%	±0.2%	±0.2%	77%	27.6~32.4V	

■ Mechanical Specification



■ Output Derating



Related Documents

- [SD-15B Series Mechanical Diagram \(621KB\)](#)
- [SD-15B Series Block Diagram \(284KB\)](#)
- [SD-15B Series CE Declaration \(34KB\)](#)