

SD-15A Series - 15W 9.2~18VDC Input Single Output DC-DC Converter

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Features	Standards
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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
 Miniture profile



Applications

General electrical engineering
 Automotive
 Security
 Battery back-up

Case Details

79 x 51 x 28mm

Specification	
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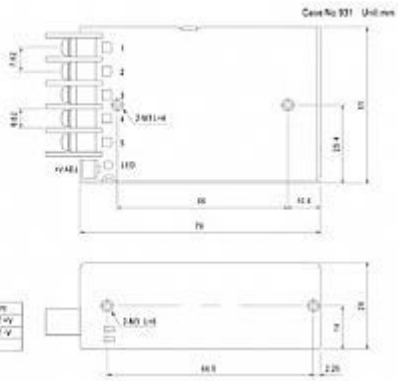
Input Voltage Range	9.2~18VDC
Input DC Current	1.9A/12VDC typically
Setup, Rise, Holdup Time	2.5s, 25ms on 12VDC & 24VDC o/p at full load
Over Load Protection	105% ~ 160% rated output power Hiccup mode , recovers automatically after fault condition is removed
Over Voltage Protection	Shut down o/p voltage, re-power on to recoverti□
Working Temperature	-10~+60°C (refer to output load derating curve)
Working Humidity	20 ~ 90% RH non-condensing
Storage Temp., Humidity	-20 ~+85°C, 10 ~ 95% RH
Temperature Coefficient	±0.03% /°C (0 ~ 50°C)
Vibration	10 ~ 500Hz, 2G 10min./1 cycle, 60 min. each along X, Y, Z axes
Withstand Voltage	I/P-O/P:3KVAC, I/P-FG:1.5KVAC, O/P-FG:0.8KVAC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC
Safety Standards	Design refer to LVD
EMS Standards	Compliance to EN55022 (CISPR22) Class B, EN61000-4-2,3,4,6,8; EN550204, EN55024, light industry level, Criteria A
Dimensions	79 x 51 x 28mm

Items

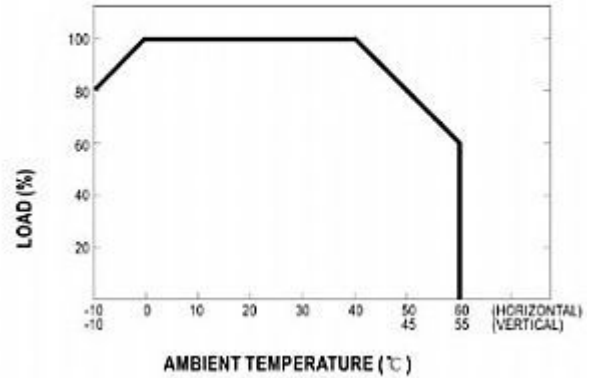
SD-15A Series Output Data

Part Code	DC Voltage	Rated Current	Current Range	Rated Power	R & N (max)	Volt Adj.
SD-15A-5	5V	3A	0 ~ 3A	15W	100mV	4.75 ~ 5.5VDC
SD-15A-12	12V	1.25A	0 ~ 1.25A	15W	120mV	10.8~13.2VDC
SD-15A-24	24V	0.625A	0 ~ 0.625A	15W	150mV	21.6~26.4VDC
Part Code	Tol.	Line Reg.	Load Reg.	Eff.	OVP	
SD-15A-5	±2.0%	±0.5%	±0.5%	68%	5.75~6.75V	
SD-15A-12	±1.0%	±0.3%	±0.3%	72%	13.8~16.2V	
SD-15A-24	±1.0%	±0.2%	±0.2%	70%	27.6~32.4V	

Mechanical Specification



Output Derating



Related Documents

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