

1SC

20 WATT WIDE INPUT DC/DC CONVERTERS

Features:

- 20 W Isolated Output
- Efficiency to 84%
- 4:1 Input Range
- Pi Input Filter
- Continuous Short Circuit Protection
- Conductive EMI meets EN55022, Class A
- Remote On/Off Control
- High Isolation Voltage

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF.	CASE
				NO LOAD	FULL LOAD		
1SC01		5 VDC	4000mA	15mA	1029mA	81	
1SC02		12 VDC	1670mA	15mA	1006mA	83	
1SC03		15 VDC	1330mA	15mA	1004mA	83	
1SC04	9-36 VDC	±12 VDC	±833mA	20mA	1004mA	83	SC
1SC05		±15 VDC	±666mA	20mA	1004mA	83	
1SC06		±5 VDC	±2000mA	20mA	1004mA	83	
1SC07		3.3 VDC	4000mA	15mA	705mA	78	
1SC11		5 VDC	4000mA	10mA	508mA	82	
1SC12		12 VDC	1670mA	10mA	497mA	84	
1SC13		15 VDC	1330mA	10mA	496mA	84	
1SC14	18-72 VDC	±12 VDC	±833mA	15mA	496mA	84	SC
1SC15		±15 VDC	±666mA	15mA	496mA	84	
1SC16		±5 VDC	±2000mA	15mA	496mA	84	
1SC17		3.3 VDC	4000mA	10mA	353mA	78	

Note: 1. Nominal Input voltage 24 or 48VDC.



D1 International, Inc.

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1SC SERIES

INPUT SPECIFICATIONS:

Input Voltage Range.....24V.....9 - 36V
 48V.....18 - 72V
 Positive Logic Remote ON/OFF (see note 3)
 Input Filter.....Pi Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy Single Output.....±1.0% max.
 Voltage Accuracy Dual + Output.....±1.0% max.
 Voltage Accuracy Dual - Output.....±2.0% max.
 Transient Response:
 Single 25% Step Load Change.....<500u sec.
 Dual, FL-1/2L±1% Error Band.....<500u sec.
 External Trim Adj. Range.....±10%
 Ripple & Noise, 20MHz BW.....20mV RMS, max.
 75mV pk - pk, max.
 Temperature Coefficient.....±0.02%/°C max.
 Short Circuit Protection.....Continuous
 Line Regulation Single/Dual Output.....±0.5% max.
 Load Regulation Single/Dual Output.....±0.5% max.

GENERAL SPECIFICATIONS:

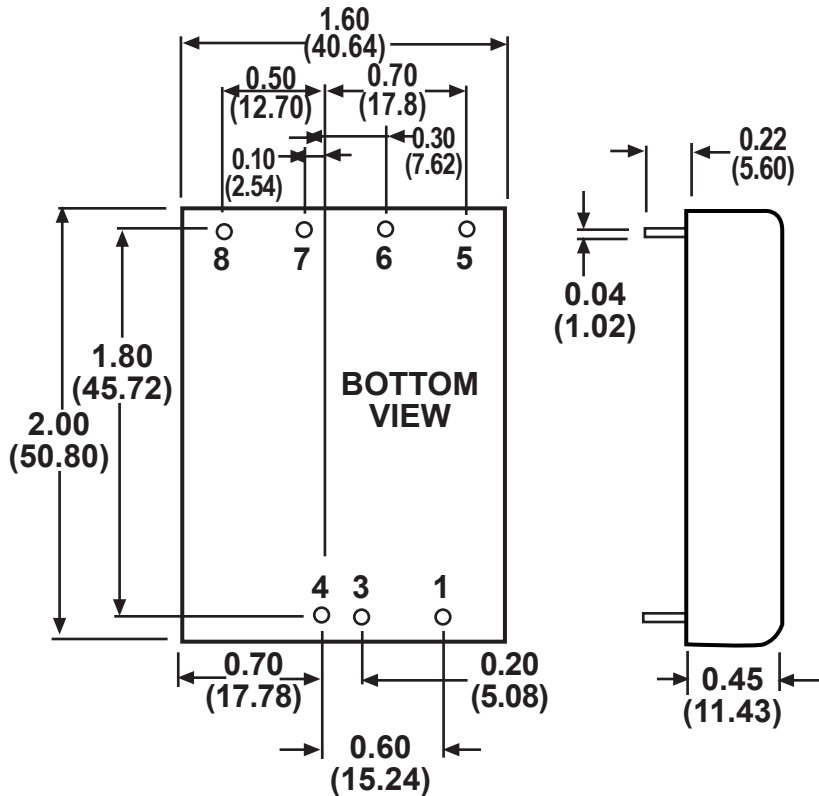
Efficiency.....See Table
 Isolation Voltage.....1500VDC min
 Isolation Resistance.....10⁸ Ohm min.
 Switching Frequency.....300KHz Typ.
 EMI/RFI.....Six Sided Continuous Shield
 Operating Temperature Range.....-25°C to +71°C
 Derating Above 60°C.....Linearly to Zero Power at +100°C
 Storage Temperature.....-55°C to +105°C
 Case Temperature.....100°C Max.
 Dimensions.....2 x 1.6 x 0.45 inches
 (50.8 x 40.64 x 11.43 mm)
 Case Material.....Black coated Copper with No-conductive Base

Notes:

1. Measured from High Line to Low Line.
2. Measured from Full Load to 1/4 Load
3. Remote On/Off Control:
 Logic Compatibility.....CMOS or Open Collector TTL
 EC - ON.....>+5.5 VDC or Open Circuit
 EC - OFF.....<1.8 VDC
 Control Common.....Referenced to Input Minus

CASE SC

All dimensions in inches (mm)
 Tolerance .xx = ±.04 .xxx ±.010



Pin	PIN CONNECTION	
	Single Output	Dual Output
1	On/Off Control	On/Off Control
3	-Vin	-Vin
4	+Vin	+Vin
5	Trim	Trim
6	-Vout	-Vout
7	+Vout	Common
8	No Pin	+Vout



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