



EC1SC SERIES

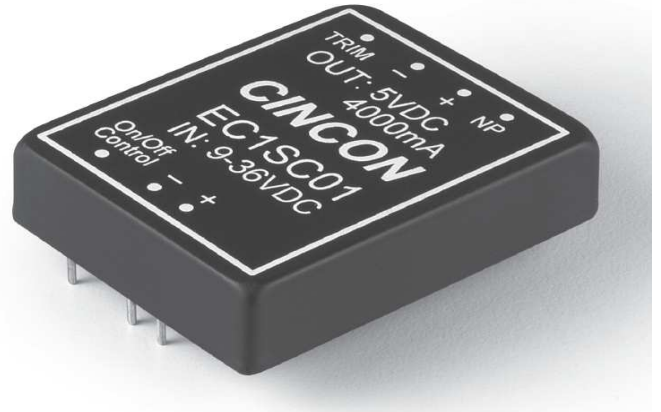
20 WATT 4:1 INPUT RANGE

DC-DC CONVERTERS



FEATURES

- * 20W Isolated Output
- * 2" X 1.6" Six-Sided Shield Metal Case
- * Efficiency to 84%
- * 4:1 Input Range
- * Pi Input Filter
- * Continuous Short Circuit Protection
- * Meets EN55022 Class A, Conducted
- * Remote On/Off Control
- * CE Mark Meets 2004/108/EC
- * UL60950-1 Approval



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF.	Capacitor Load max.
				NO LOAD	FULL LOAD		
EC1SC01	9-36 VDC	5VDC	4000 mA	15 mA	1029 mA	81	4000uF
EC1SC02	9-36 VDC	12VDC	1670 mA	15 mA	1006 mA	83	1670uF
EC1SC03	9-36 VDC	15VDC	1330 mA	15 mA	1004 mA	83	1330uF
EC1SC04	9-36 VDC	±12VDC	±833 mA	20 mA	1004 mA	83	833uF
EC1SC05	9-36 VDC	±15VDC	±666 mA	20 mA	1004 mA	83	666uF
EC1SC06	9-36 VDC	±5VDC	±2000 mA	20 mA	1004 mA	83	2000uF
EC1SC07	9-36 VDC	3.3VDC	4000 mA	15 mA	705 mA	78	4000uF
EC1SC11	18-72 VDC	5VDC	4000 mA	10 mA	508 mA	82	4000uF
EC1SC12	18-72 VDC	12VDC	1670 mA	10 mA	497 mA	84	1670uF
EC1SC13	18-72 VDC	15VDC	1330 mA	10 mA	496 mA	84	1330uF
EC1SC14	18-72 VDC	±12VDC	±833 mA	15 mA	496 mA	84	833uF
EC1SC15	18-72 VDC	±15VDC	±666 mA	15 mA	496 mA	84	666uF
EC1SC16	18-72 VDC	±5VDC	±2000 mA	15 mA	496 mA	84	2000uF
EC1SC17	18-72 VDC	3.3VDC	4000 mA	10 mA	353 mA	78	4000uF

NOTE: 1. Nominal Input Voltage 24 or 48VDC

SPECIFICATIONS

All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

INPUT SPECIFICATIONS:

Input Voltage Range	24V	9-36V
	48V	18-72V
Input Surge Voltage (100ms max.)	24V	50Vdc max.
	48V	100Vdc max.
Input Filter		Pi Type
Positive Logic Remote ON/OFF /Control		See Note3

OUTPUT SPECIFICATIONS:

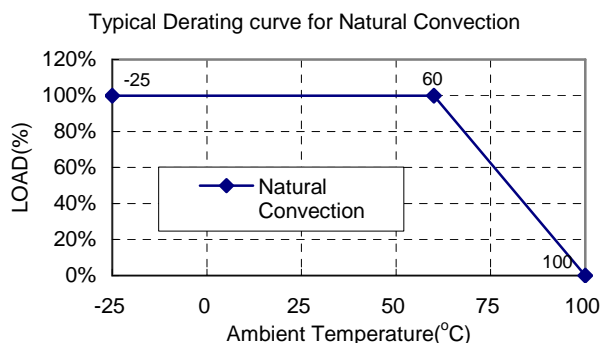
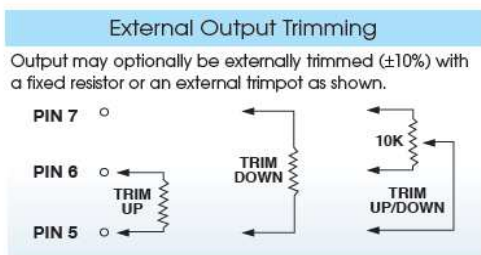
Voltage Accuracy	
Single Output	±1.0% max.
Dual +Output	±1.0% max.
Dual -Output	±2.0% max.
Voltage Balance, Dual Output at Full Load	
	±1.0% max.
Transient Response	
Single 25% Step Load Change	<500u sec.
Dual FL-1/2L±1% Error Band	<500u sec.
External Trim Adj. Range	±10%
Ripple & Noise, 20MHz BW	20mV RMS, max. 75mV p-p max.
Temperature Coefficient	±0.02%/°C max.
Short Circuit Protection	Continuous
Line Regulation (note 1)	±0.5% max.
Load Regulation (note 2)	±0.5% max.
Start up time	270ms Typ.

GENERAL SPECIFICATIONS:

Efficiency	See Table
Isolation Voltage	1500 VDC min
Isolation Resistance	10 ⁸ ohms
Isolation Capacitance	1000pF Typ.
Switching Frequency	300KHz Typ.
Operating Ambient Temperature Range	-25°C to +71°C
De-rating, Above 60°C	Linearly to Zero power at +100°C
Case Temperature(note 4)	100°C max.
Storage Temperature Range	-55°C to +105°C
Humidity	95% RH max. Non condensing
MTBF	MIL-STD-217F, GB, 25°C, Full Load1500Khrs Typ.
EMI/RFI	Six Sided Continuous Shield
Dimensions	2.00x1.60x0.45 inches (50.8x40.6x11.4mm)
Case Material	Black Coated Copper with Non-Conductive Base
Weight	53g

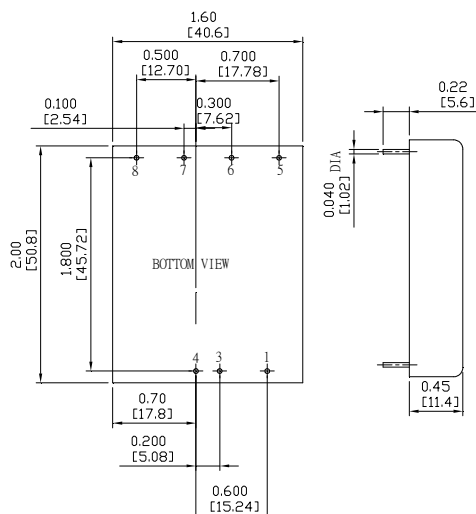
NOTE:

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 >+5.5VDC to 75VDC or Open Circuit
 - EC-OFF <1.8 VDC
 - Control Common.....Referenced to Input Minus
4. Maximum case temperature under any operating condition should not be exceeded 100°C



Case SC Dimensions:

All Dimensions In Inches(mm)
 Tolerances Inches: X.XX= ±0.04 , X.XXX= ±0.010
 Millimeters: X.X= ±1.0 , X.XX=±0.25



PIN CONNECTIONS		
Pin	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