

DC DC

Part Num

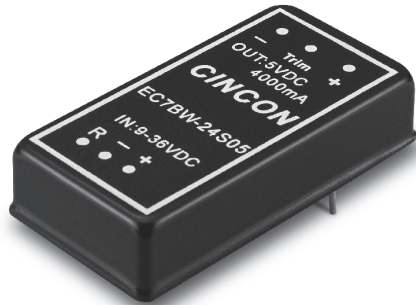
EC7BW SERIES

STONTRONICS

THE POWER TO SUPPLY

part of Stadium Group Plc.

20 WATT 4:1 INPUT RANGE DC-DC CONVERTERS



Features:

- 20W Isolated Output
- 4: 1 Wide Input Range
- Efficiency to 90%
- Regulated Outputs
- Continuous Short Circuit Protection
- Pi Input Filter

Electrical Characteristics:

MODEL Number	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		%EFF.	SIZE
			MIN	MAX	NO LOAD	FULL LOAD		
EC7BW-24S33	9-36 VDC	3.3 VDC	0mA	5500mA	55mA	869mA	87	2" x 1"
EC7BW-24S05	9-36 VDC	5 VDC	0mA	4000mA	55mA	926mA	90	2" x 1"
EC7BW-24S12	9-36 VDC	12 VDC	0mA	1670mA	55mA	928mA	90	2" x 1"
EC7BW-24S15	9-36 VDC	15 VDC	0mA	1330mA	55mA	924mA	90	2" x 1"
EC7BW-48S33	18-75 VDC	3.3 VDC	0mA	5500mA	25mA	430mA	88	2" x 1"
EC7BW-48S05	18-75 VDC	5 VDC	0mA	4000mA	25mA	463mA	90	2" x 1"
EC7BW-48S12	18-75 VDC	12 VDC	0mA	1670mA	25mA	464mA	90	2" x 1"
EC7BW-48S15	18-75 VDC	15 VDC	0mA	1330mA	25mA	462mA	90	2" x 1"

NOTE: 1. Nominal Input Voltage 24 or 48 VDC

Stontronics Ltd

Chancerygate Business Centre, Cradock Road, Reading, Berkshire, RG2 0AH.

Tel: +44 (0) 118 931 1199 • Fax: +44 (0) 118 931 1145 • Email: info@stontronics.co.uk • Web: www.stontronics.com

Please Note: Image shown is representative of entire range. Individual PSU image &/or drawings or data sheets available on request.

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Specification

INPUT SPECIFICATIONS:

Input Voltage Range.....	12V.....	9-36V
	48V.....	36-75V
Under Voltage lockout.....	24Vin Power Up.....	8.8V
	24Vin Power Down.....	8V
	48Vin Power Up.....	17V
	48Vin Power Down.....	16V
Positive Logic Remote ON/OFF (see note 3 & 4)		
Input Filter.....		Pi Type

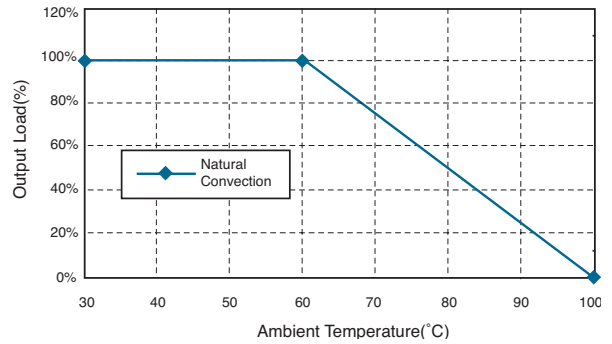
OUTPUT SPECIFICATIONS:

Voltage Accuracy.....	±1.5% max.
Transient Response:75%-100% Step Load Change	
Error Band.....	±5% Vout Nominal
Recovery Time.....	<500us
Ripple & Noise, 20MHz BW (Measured with 0.1µF MLCC)..	75mV pk-pk, max.
Temperature Coefficient.....	±0.03%/°C
Line Regulation1.....	± 0.2% max.
Load Regulation2.....	± 1.0% max.
Over Voltage Protection.....	Zener or TVS Clamp
Output Short Circuit Protecion.....	Continuous
External Trim Adj. Range.....	±10%

GENERAL SPECIFICATIONS:

Efficiency.....	See Table
Isolation Voltage.....	1500 VDC
Isolation Resistance.....	10.ohms
Switching Frequency.....	350KHz, Typ.
EMI/RFI.....	Six Sided Continuous Shield
Operating Ambient Temperature.....	-40°C to +85°C
De-Rating, Above 71°C.....	Linearly to Zero Power at 100°C
Case Temperature6.....	100°C max.
Storage Temperature.....	-55°C to + 125°C
Cooling.....	Natural Convection
Dimensions.....	2.00 x 1.00 x 0.40 inches (50.8 x 25.4 x 10.2mm)
Case Material.....	Black Coated Copper with Non-Conductive Base
Weight.....	35g

EC7BW Series Derating curve



NOTE:

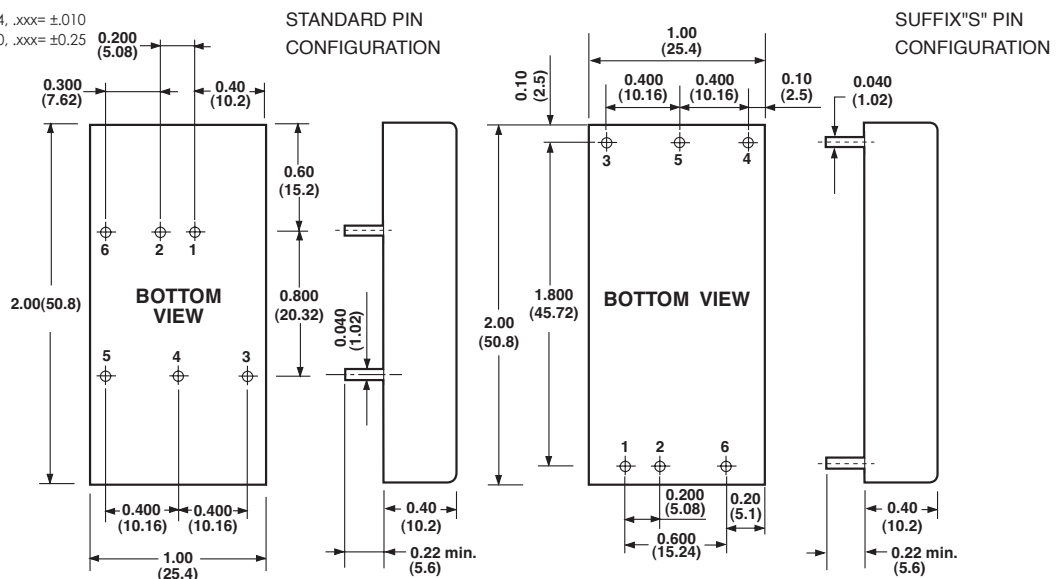
1. Measured From High Line to Low Line
2. Measured From Full Load to 10% Load
3. Logic Compatibility.....CMOS or Open Collector TTL, ref. to - Vin
Module ON.....>+5.5VDC or Open Circuit
Module OFF.....<1.2VDC
4. Suffix "N" to the Model Number with Negative Logic Remote ON/OFF
Module ON.....<1.2VDC
Module OFF.....>+5.5VDC or Open Circuit
5. Suffix "S" to the Model Number with Alternative Pin Configuration, Single output models only
6. Maximum case temperature under any operating condition should not exceed 100°C

PIN CONNECTION

Pin	Function
1	+V Input
2	-V Input
3	+V Output
4	Trim
5	-V Output
6	Remote ON/OFF

CASE B

All Dimensions In Inches(mm)
Tolerance Inches: .xx= ±.04, .xxx= ±0.10
Millimeters: .xx= ±1.0, .xxx= ±0.25



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