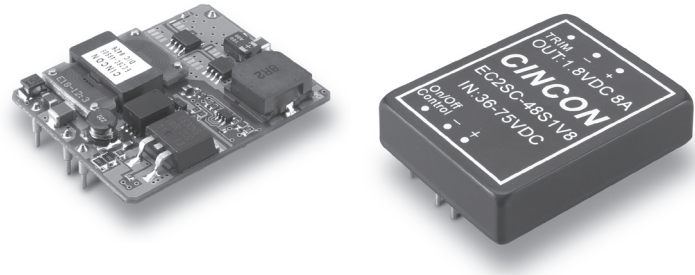


Description:

- 14.4 - 25W Isolated Output
- High Efficiency Up to 91%
- Fixed 300KHz Switching Frequency
- 2 : 1 Input Range
- Regulated Outputs
- Continuous Short Circuit Protection
- Six-Sided Metal Case or Open-Frame
- 2" X 1.6" size
- Industry Standard Pin-Out



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		%EFF	SIZE
				NO LOAD	FULL LOAD		
EC2SC-24S18	18-36 VDC	1.8 VDC	8 A	70 mA	723 mA	83	SC
EC2SC-24S25	18-36 VDC	2.5 VDC	8 A	70 mA	970 mA	86	SC
EC2SC-24S33	18-36 VDC	3.3 VDC	6 A	70 mA	940 mA	88	SC
EC2SC-24S05	18-36 VDC	5.0 VDC	5 A	70 mA	1170 mA	89	SC
EC2SC-24S12	18-36 VDC	12 VDC	2 A	50 mA	1136 mA	88	SC
EC2SC-24S15	18-36 VDC	15 VDC	1.6 A	50 mA	1136 mA	88	SC
EC2SC-48S18	36-75 VDC	1.8 VDC	8 A	50 mA	353 mA	85	SC
EC2SC-48S25	36-75 VDC	2.5 VDC	8 A	50 mA	479 mA	87	SC
EC2SC-48S33	36-75 VDC	3.3 VDC	6 A	50 mA	465 mA	89	SC
EC2SC-48S05	36-75 VDC	5.0 VDC	5 A	50 mA	572 mA	91	SC
EC2SC-48S12	36-75 VDC	12 VDC	2A	30 mA	562 mA	89	SC
EC2SC-48S15	36-75 VDC	15 VDC	1.6A	30 mA	562 mA	89	SC

NOTE : 1. Nominal Input Voltage 24, 48 VDC

INPUT SPECIFICATIONS:

Input Voltage Range	24V.....18-36V	48V.....36-75V
Undervoltage lockout	24Vin power up 17V	24Vin power down16V
	48Vin power up34V	48Vin power down32V
Positive Logic Remote ON/OFF ^{3,4}		
Input Filter	PI Type	

OUTPUT SPECIFICATIONS:

Voltage Accuracy :	±1% max.
Transient Response: 75% - 100% Step Load Change	
Error Band	±5% Vout nominal
Recovery Time	< 300µ sec.
Output Voltage Adjustment Range, %Vo	90% - 110%
Ripple & Noise, 20MHz BW (Measured with 0.1µF MLCC)	
1.8V & 2.5V & 3.3V & 5V	20mV RMS, max. 75mV pk-pk, max.
12V & 15V	20mV RMS, max. 100mV pk-pk, max.
Temperature Coefficient	±0.02% / °C
Output Line Regulation ¹	±0.5% max.
Output Load Regulation ²	±0.5% max.
Output Over Voltage Protection (Zener Diode Clamp)	
1.8V & 2.5V	3.3V
3.3V	3.9V
5V	6.2V
12V	15V
15V	18V
Output Current Limit, % Nominal Output	110% ~ 150%
Output Short Circuit Protection	Continuous (hiccup mode).

GENERAL SPECIFICATIONS:

Efficiency.....See Table
 Isolation VoltageInput/Output..... 1500VDC max.
 Isolation Resistance 10⁸ ohm min.
 Switching Frequency 300KHz, Typ
 Operating Ambient Temperature⁵..... -40°C to +85°C
 Case Temperature..... 100°C max.
 Storage Temperature -55°C to +125°C
 Thermal Shutdown Case Temp..... 110°C Typ.
 Dimensions:

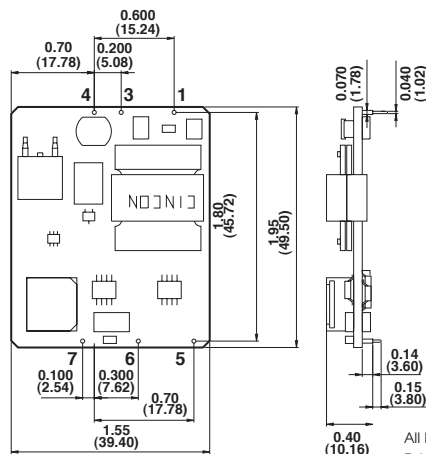
 Metal Case.....2.00x1.60x0.45 inches(50.8x40.6x11.4 mm)
 Open Frame.....1.95x1.55x0.40 inches(49.5x39.4x10.16 mm)
 Metal Case Material: Black Coated Copper with Non-Conductive Base
 Weight.....25g

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 > 3.5Vdc or Open Circuit
 Module OFF < 1.8Vdc
4. Suffix "N" to the Model Number with Negative Logic Remote ON/OFF
 Module ON < 1.8Vdc
 Module OFF >3.5Vdc or Open Circuit
5. Derating :
 Metal Case : Above 71°C, Linearly to Zero power at 100°C
 Open Frame: Above 60°C, Linearly to Zero power at 100°C
6. Suffix "O" to the Model Number with Open Frame Type.

Mechanical Specification

Open Frame (Suffix "O")

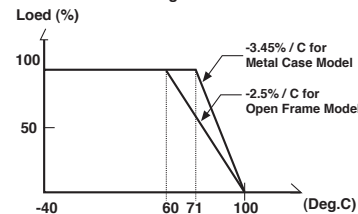


PIN CONNECTION

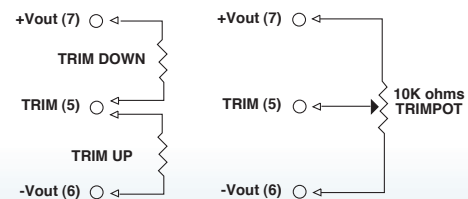
Pin	Function
1.	On/Off Control
3.	-V Input
4.	+V Input
5.	Trim
6.	-V Output
7.	+V Output
8.	No Pin

All Dimensions In Inches(mm)
 Tolerances: .XX±.04 .XXX±.010

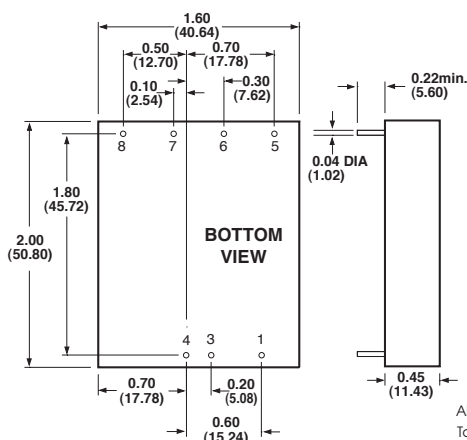
Derating Curve:



External Output Trim



Metal Case



PIN CONNECTION

Pin	Function
1.	On/Off Control
3.	-V Input
4.	+V Input
5.	Trim
6.	-V Output
7.	+V Output
8.	No Pin

All Dimensions In Inches(mm)
 Tolerances: .XX±.04 .XXX±.010

Remote ON/OFF Control

