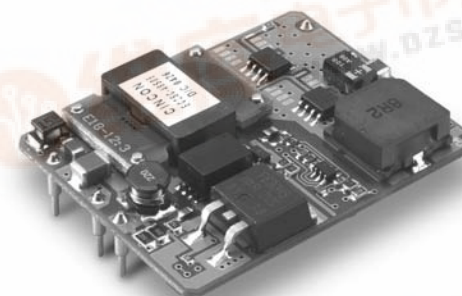


EC2SC

14.4 TO 25 WATT WIDE INPUT DC-DC CONVERTERS SINGLE OUTPUT

Features

- 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 NO LOAD	INPUT CURRENT FULL LOAD	%EFF	SIZE
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

Specifications

INPUT SPECIFICATIONS:

Input Voltage Range.....	24V.....	18-36V
	48V.....	36-75V
Undervoltage lockout	24Vin power up	17V
	24Vin power down	16V
	48Vin power up	34V
	48Vin power down	32V
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:

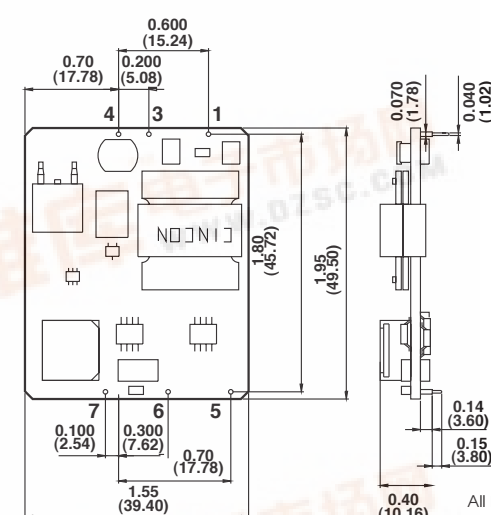
Efficiency.....	See Table
Isolation Voltage	1500VDC max.
Isolation Resistance	10 ⁸ ohm min.
Switching Frequency	300KHz, Typ
Operating Ambient Temperature ⁵	-40°C to +85°C
Case Temperature.....	100°C max.
Storage Temperature	-55°C to +125°C
Thermal Shutdown Case Temp.....	110°C Typ.
Dimensions:	
Metal 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

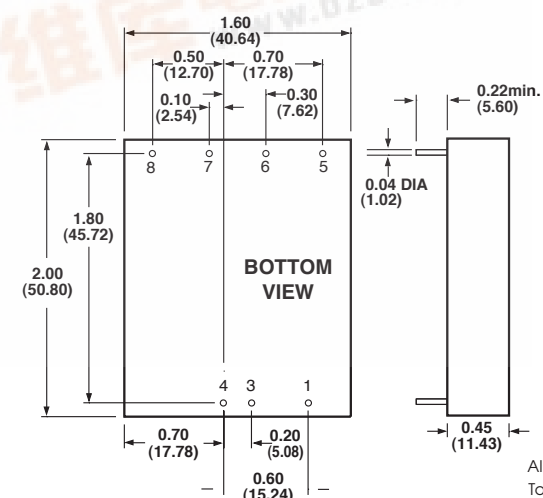
Open Frame (Suffix "O")



PIN CONNECTION

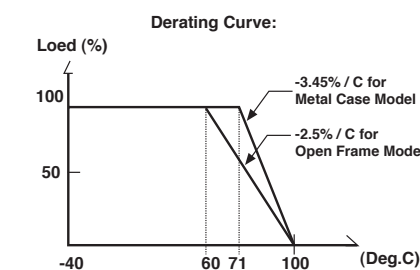
Pin	Function
1.	On/Off Control
3.	-V Input
4.	+V Input
5.	Trim
6.	-V Output
7.	+V Output
8.	No Pin

Metal Case

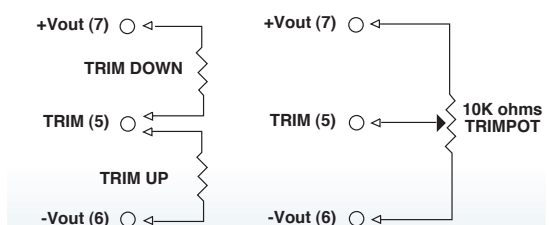


PIN CONNECTION

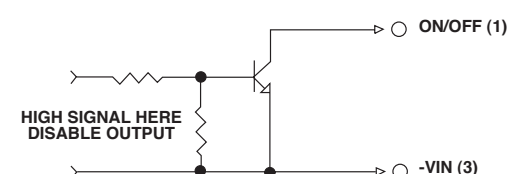
Pin	Function
1.	On/Off Control
3.	-V Input
4.	+V Input
5.	Trim
6.	-V Output
7.	+V Output
8.	No Pin



External Output Trim



Remote ON/OFF Control



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

