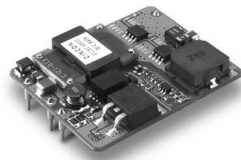


EC25C

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
EC25C-24S18	18-36 VDC	1.8 VDC	8 A	70 mA	723 mA	83	SC
EC25C-24S25	18-36 VDC	2.5 VDC	8 A	70 mA	970 mA	86	SC
EC25C-24S33	18-36 VDC	3.3 VDC	6 A	70 mA	940 mA	88	SC
EC25C-24S05	18-36 VDC	5.0 VDC	5 A	70 mA	1170 mA	89	SC
EC25C-24S12	18-36 VDC	12 VDC	2 A	50 mA	1136 mA	88	SC
EC25C-24S15	18-36 VDC	15 VDC	1.6 A	50 mA	1136 mA	88	SC
EC25C-48S18	36-75 VDC	1.8 VDC	8 A	50 mA	353 mA	85	SC
EC25C-48S25	36-75 VDC	2.5 VDC	8 A	50 mA	479 mA	87	SC
EC25C-48S33	36-75 VDC	3.3 VDC	6 A	50 mA	465 mA	89	SC
EC25C-48S05	36-75 VDC	5.0 VDC	5 A	50 mA	572 mA	91	SC
EC25C-48S12	36-75 VDC	12 VDC	2 A	30 mA	562 mA	89	SC
EC25C-48S15	36-75 VDC	15 VDC	1.6 A	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 ¹		PI Type
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	.....±0.5% max.
Output Load Regulation	.....±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:

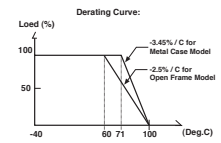
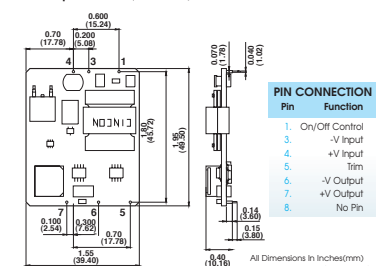
Efficiency	.....See Table
Isolation Voltage	.....Input/Output.....1500VDC max.
Isolation Resistance	.....10 ⁸ ohm min.
Switching Frequency	.....300kHz Typ
Operating Ambient Temperature ²	.....-40°C to +85°C
Case Temperature	.....100°C max.
Storage Temperature	.....-55°C to +125°C
Thermal Shutdown Case 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:

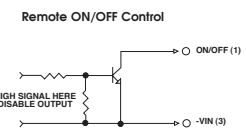
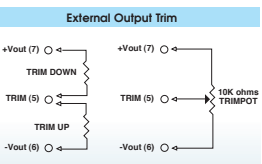
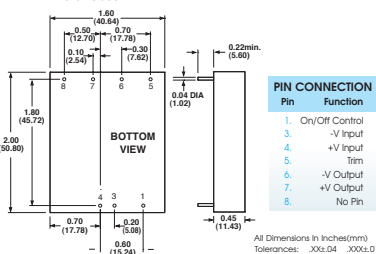
1. Measured From High Line to Low Line
2. Measured From Full Load to 10% Load
3. Logic Compatibility ... CMOS or Open Collector TTL ref. to -Vin
Module ON > 3.9Vdc or Open Circuit
Module OFF < 1.8Vdc
4. Suffix 'N' to the Model Number with Negative Logic Remote ON/OFF
Module ON < 1.8Vdc
Module OFF > 3.9Vdc 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')



Metal Case



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Änderungen vorbehalten / subject to change without notice

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