

## FEC40 DC/DC Converters 40w 40 Watt

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### Isolated and Regulated 40 WATT Modular DC/DC Converters

- Wide 2 : 1 Input Range
- High Efficiency
- Regulated Output
- 1600V Isolation
- Full EMI Shielding
- L-C Type Input Filter

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Model Number	Input Voltage Range	Input Surge Voltage	Under Voltage Lockout	Minimum Load Requirement	Output Voltage	Output Amps	Load Regulation	Line Regulation
<a href="#">FEC40-24S3P3</a>	18-36 VDC	50mS max. 50VDC	DC-DC On: 17.8V / DC-DC Off: 16V		3.3 VDC	8	±0.5% 10% - FL (Note 3)	±0
<a href="#">FEC40-48S3P3</a>	36-75 VDC	100mS max. 100VDC	DC-DC On: 36V / DC-DC Off: 34V		3.3 VDC	8	±0.5% 10% - FL (Note 3)	±0
<a href="#">FEC40-24S05</a>	18-36 VDC	50mS max. 50VDC	DC-DC On: 17.8V / DC-DC Off: 16V		5 VDC	8	±0.5% 10% - FL (Note 3)	±0
<a href="#">FEC40-48S05</a>	36-75 VDC	100mS max. 100VDC	DC-DC On: 36V / DC-DC Off: 34V		5 VDC	8	±0.5% 10% - FL (Note 3)	±0

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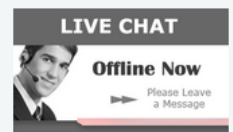
<a href="#">FEC40-24S12</a>	<a href="#">18-36 VDC</a>	<a href="#">50mS max. 50VDC</a>	DC-DC On: 17.8V / DC-DC Off: 16V		12 VDC	3.33	±0.5% 10% - FL (Note 3)	±0
<a href="#">FEC40-48S12</a>	<a href="#">36-75 VDC</a>	<a href="#">100mS max. 100VDC</a>	DC-DC On: 36V / DC-DC Off: 34V		12 VDC	3.33	±0.5% 10% - FL (Note 3)	±0
<a href="#">FEC40-24S15</a>	<a href="#">18-36 VDC</a>	<a href="#">50mS max. 50VDC</a>	DC-DC On: 17.8V / DC-DC Off: 16V		15 VDC	2.66	±0.5% 10% - FL (Note 3)	±0
<a href="#">FEC40-48S15</a>	<a href="#">36-75 VDC</a>	<a href="#">100mS max. 100VDC</a>	DC-DC On: 36V / DC-DC Off: 34V		15 VDC	2.66	±0.5% 10% - FL (Note 3)	±0
<a href="#">FEC40-24D3305</a>	<a href="#">18-36 VDC</a>	<a href="#">50mS max. 50VDC</a>	DC-DC On: 17.8V / DC-DC Off: 16V		3.3 / 5 VDC	4 / 4	±1% 10% - FL (Note 3)	±0
<a href="#">FEC40-48D3305</a>	<a href="#">36-75 VDC</a>	<a href="#">100mS max. 100VDC</a>	DC-DC On: 36V / DC-DC Off: 34V		3.3 / 5 VDC	4 / 4	±1% 10% - FL (Note 3)	±0
<a href="#">FEC40-24T3312</a>	<a href="#">18-36 VDC</a>	<a href="#">50mS max. 50VDC</a>	DC-DC On: 17.8V / DC-DC Off: 16V	10% (Note 2)	3.3, ±12 VDC	6, ±0.40	±3%, ±5% 10% - FL (Note 3)	±1
<a href="#">FEC40-48T3312</a>	<a href="#">36-75 VDC</a>	<a href="#">100mS max. 100VDC</a>	DC-DC On: 36V / DC-DC Off: 34V	10% (Note 2)	3.3, ±12 VDC	6, ±0.40	±3%, ±5% 10% - FL (Note 3)	±1
<a href="#">FEC40-24T3315</a>	<a href="#">18-36 VDC</a>	<a href="#">50mS max. 50VDC</a>	DC-DC On: 17.8V / DC-DC Off: 16V	10% (Note 2)	3.3, ±15 VDC	6, ±0.30	±3%, ±5% 10% - FL (Note 3)	±1
<a href="#">FEC40-48T3315</a>	<a href="#">36-75 VDC</a>	<a href="#">100mS max. 100VDC</a>	DC-DC On: 36V / DC-DC Off: 34V	10% (Note 2)	3.3, ±15 VDC	6, ±0.30	±3%, ±5% 10% - FL (Note 3)	±1
<a href="#">FEC40-24T0512</a>	<a href="#">18-36 VDC</a>	<a href="#">50mS max. 50VDC</a>	DC-DC On: 17.8V / DC-DC Off: 16V	10% (Note 2)	5, ±12 VDC	6, ±0.40	±3%, ±5% 10% - FL (Note 3)	±1
<a href="#">FEC40-48T0512</a>	<a href="#">36-75 VDC</a>	<a href="#">100mS max. 100VDC</a>	DC-DC On: 36V / DC-DC Off: 34V	10% (Note 2)	5, ±12 VDC	6, ±0.40	±3%, ±5% 10% - FL (Note 3)	±1
<a href="#">FEC40-24T0515</a>	<a href="#">18-36 VDC</a>	<a href="#">50mS max. 50VDC</a>	DC-DC On: 17.8V / DC-DC Off: 16V	10% (Note 2)	5, ±15 VDC	6, ±0.30	±3%, ±5% 10% - FL (Note 3)	±1

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<a href="#">FEC40-48T0515</a>	<a href="#">36-75 VDC</a>	<a href="#">100mS max, 100VDC</a>	DC-DC On: 36V / DC-DC Off: 34V	10% (Note 2)	5, ±15 VDC	6, ±0.30	±3%, ±5% 10% - FL (Note 3)	±1
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## FEC40 series

Search:

Model Number	Cross Regulation	Preset Accuracy	Ripple and Noise	Over Voltage Protection	Efficiency	
<a href="#">FEC40-24S3P3</a>		±1% (FL & 513:513Nom I/P)	50mV Pk-Pk (Note 5)	±2%	3.9Volts Zener Diode Clamp	87%
<a href="#">FEC40-48S3P3</a>		±1% (FL & 513:513Nom I/P)	50mV Pk-Pk (Note 5)	±2%	3.9Volts Zener Diode Clamp	88%
<a href="#">FEC40-24S05</a>		±1% (FL & 513:513Nom I/P)	50mV Pk-Pk (Note 5)	±2%	6.2Volts Zener Diode Clamp	89%
<a href="#">FEC40-48S05</a>		±1% (FL & 513:513Nom I/P)	50mV Pk-Pk (Note 5)	±2%	6.2Volts Zener Diode Clamp	90%
<a href="#">FEC40-24S12</a>		±1% (FL & 513:513Nom I/P)	75mV Pk-Pk (Note 5)	±2%	15 Volts Zener Diode Clamp	88%
<a href="#">FEC40-48S12</a>		±1% (FL & 513:513Nom I/P)	75mV Pk-Pk (Note 5)	±2%	15 Volts Zener Diode Clamp	89%
<a href="#">FEC40-24S15</a>		±1% (FL & 513:513Nom I/P)	75mV Pk-Pk (Note 5)	±2%	18Volts Zener Diode Clamp	89%
<a href="#">FEC40-48S15</a>		±1% (FL & 513:513Nom I/P)	75mV Pk-Pk (Note 5)	±2%	18Volts Zener Diode Clamp	89%
<a href="#">FEC40-24D3305</a>	<a href="#">±1% (Note 4)</a>	<a href="#">±1% (FL &amp; 513:513Nom I/P)</a>	100mV Pk-Pk (Note 5)	±2%	3.9 Volts	84%
<a href="#">FEC40-48D3305</a>	<a href="#">±1% (Note 4)</a>	<a href="#">±1% (FL &amp; 513:513Nom I/P)</a>	100mV Pk-Pk (Note 5)	±2%	3.9 Volts	85%
<a href="#">FEC40-24T3312</a>	<a href="#">±5% (Note 4)</a>	<a href="#">±1%, ±3% (FL &amp; 513:513Nom I/P)</a>	50 / 75mV Pk-Pk (Note 5)	±2%, ±5%	3.9 Volts	85%
<a href="#">FEC40-48T3312</a>	<a href="#">±5% (Note 4)</a>	<a href="#">±1%, ±3% (FL &amp; 513:513Nom I/P)</a>	50 / 75mV Pk-Pk (Note 5)	±2%, ±5%	3.9 Volts	86%
<a href="#">FEC40-24T3315</a>	<a href="#">±5% (Note 4)</a>	<a href="#">±1%, ±3% (FL &amp; 513:513Nom I/P)</a>	50 / 75mV Pk-Pk (Note 5)	±2%, ±5%	3.9 Volts	85%
<a href="#">FEC40-48T3315</a>	<a href="#">±5% (Note 4)</a>	<a href="#">±1%, ±3% (FL &amp; 513:513Nom I/P)</a>	50 / 75mV Pk-Pk (Note 5)	±2%, ±5%	3.9 Volts	86%

<a href="#">FEC40-24T0512</a>	<a href="#">±5% (Note 4)</a>	<a href="#">±1%, ±3% (FL &amp; 513:513Nom I/P)</a>	50 / 75mV Pk-Pk (Note 5)	±2%, ±5%	3.9 Volts	87%
<a href="#">FEC40-48T0512</a>	<a href="#">±5% (Note 4)</a>	<a href="#">±1%, ±3% (FL &amp; 513:513Nom I/P)</a>	50 / 75mV Pk-Pk (Note 5)	±2%, ±5%	3.9 Volts	88%
<a href="#">FEC40-24T0515</a>	<a href="#">±5% (Note 4)</a>	<a href="#">±1%, ±3% (FL &amp; 513:513Nom I/P)</a>	50 / 75mV Pk-Pk (Note 5)	±2%, ±5%	3.9 Volts	87%
<a href="#">FEC40-48T0515</a>	<a href="#">±5% (Note 4)</a>	<a href="#">±1%, ±3% (FL &amp; 513:513Nom I/P)</a>	50 / 75mV Pk-Pk (Note 5)	±2%, ±5%	3.9 Volts	88%

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### Input Specifications

Input Voltage Range	18-36 VDC
Remote Off Input Current	2.5mA Nom. Input
Input Filter	L-C Type (Note 6)
Input Voltage Variation	5V / mS, max. dv/dt (Complies with ETS300 132 part 4.4)
Input Surge Voltage	50mS max. 50VDC
Start Up Time	Nom. I/P and Static Resistive Load 25mS, typ.
Input Reflected Ripple Current	40mA Pk-Pk Nom I/P and FL (Note 7)
Under Voltage Lockout	DC-DC On: 17.8V / DC-DC Off: 16V

### General Specifications

Isolation	1600VDC
Insulation Resistance	10-9nth Ohms
Switching Frequency	300Khz, typ (Note 9)
Input-Output Capacitance	1000 pF, Max.

### Physical Specifications

Size (Inches)	2.0" x 2.0" x 0.40"
Case Material	Nickel-Coated Copper Non-Conductive Base
Construction	Fully Encapsulated with UL94-VO Epoxy

### Output Specifications

Output Voltage	3.3 VDC
Output Amps	8
Load Regulation	±0.5% 10% – FL (Note 3)
Line Regulation	±0.5%
Preset Accuracy	±1% (FL & 513:513Nom I/P)
Temperature Coefficient	±0.02%/°C, Max.
Ripple and Noise	50mV Pk-Pk (Note 5)
Voltage Stability	±2%
Short Circuit Protection	Hiccup, Auto Recovery
Over Current Protection	150% Max. FL, Nom. I/P
Over Temperature Protection	115°C, typ.
Transient Response	400uS (25% Load Step)
DC Voltage Adjust (typ.)	±10% (Note 1)

### Environmental Specifications

Case Temperature	100°C
Storage Temperature	-55 to +105°C
Working Humidity	5 to 95% RH
MTBF	1.398 MHRs (Note 10)
Vibration	10-55Hz, 2G, 30 Minutes along X, Y and Z Axes
Thermal Impedance	Convection: 9.2°C/Watt; Heat Sink w. 20LFM 8.5°C/Watt; Heat Sink w. 500LFM 2.8°C/Watt (Note 11)
Thermal Shock	MIL-STD-810D
Remot Shutdown	DC-DC On: Open or 3.5V < Vr < 12V; DC-DC Off: Short or 0V < Vr < 1.2V
Remote Off Input Current 1	2.5mA