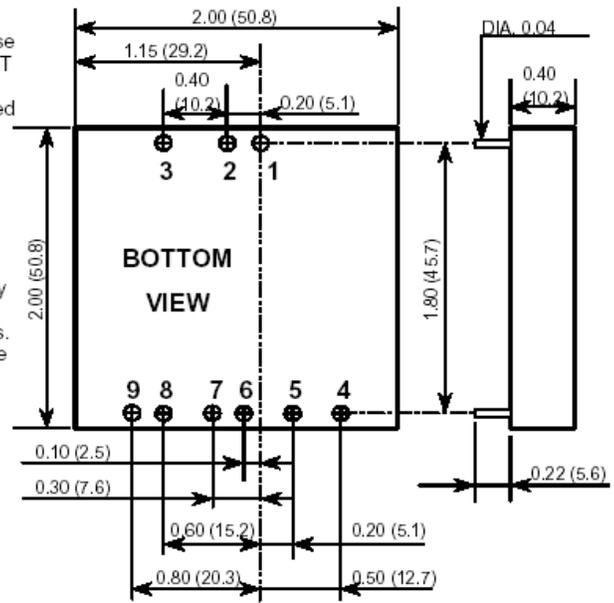


Model Number	Input Range	Output Voltage	Output Current	Output Ripple & Noise	Input Current ⁽¹³⁾	Eff ⁽¹⁴⁾ (%)	Capacitor ⁽¹⁵⁾ Load max
FEC40-24S3P3	18 – 36 VDC	3.3 VDC	8000mA	50mVp-p	1325mA	87	21000uF
FEC40-24S05	18 – 36 VDC	5 VDC	8000mA	50mVp-p	1961mA	89	13600uF
FEC40-24S12	18 – 36 VDC	12 VDC	3333mA	75mVp-p	2048mA	88	2360uF
FEC40-24S15	18 – 36 VDC	15 VDC	2666mA	75mVp-p	1985mA	89	1510uF
FEC40-24D3305	18 – 36 VDC	3.3 / 5 VDC	4A / 4A (total 8A) ⁽¹²⁾	100mVp-p	1729mA	84	11000 / 6800uF
FEC40-24T3312	18 – 36 VDC	3.3 / ±12 VDC	6000mA / ±400mA	50 / 75mVp-p	1512mA	85	13000 / ±330uF
FEC40-24T3315	18 – 36 VDC	3.3 / ±15 VDC	6000mA / ±300mA	50 / 75mVp-p	1481mA	85	13000 / ±110uF
FEC40-24T0512	18 – 36 VDC	5 / ±12 VDC	6000mA / ±400mA	50 / 75mVp-p	1989mA	87	6800 / ±330uF
FEC40-24T0515	18 – 36 VDC	5 / ±15 VDC	6000mA / ±300mA	50 / 75mVp-p	1958mA	87	6800 / ±110uF
FEC40-48S3P3	36 – 75 VDC	3.3 VDC	8000mA	50mVp-p	655mA	88	21000uF
FEC40-48S05	36 – 75 VDC	5 VDC	8000mA	50mVp-p	969mA	90	13600uF
FEC40-48S12	36 – 75 VDC	12 VDC	3333mA	75mVp-p	1000mA	89	2360uF
FEC40-48S15	36 – 75 VDC	15 VDC	2666mA	75mVp-p	992mA	89	1510uF
FEC40-48D3305	36 – 75 VDC	3.3 / 5 VDC	4A / 4A (total 8A) ⁽¹²⁾	100mVp-p	854mA	85	11000 / 6800uF
FEC40-48T3312	36 – 75 VDC	3.3 / ±12 VDC	6000mA / ±400mA	50 / 75mVp-p	747mA	86	13000 / ±330uF
FEC40-48T3315	36 – 75 VDC	3.3 / ±15 VDC	6000mA / ±300mA	50 / 75mVp-p	732mA	86	13000 / ±110uF
FEC40-48T0512	36 – 75 VDC	5 / ±12 VDC	6000mA / ±400mA	50 / 75mVp-p	982mA	88	6800 / ±330uF
FEC40-48T0515	36 – 75 VDC	5 / ±15 VDC	6000mA / ±300mA	50 / 75mVp-p	967mA	88	6800 / ±110uF

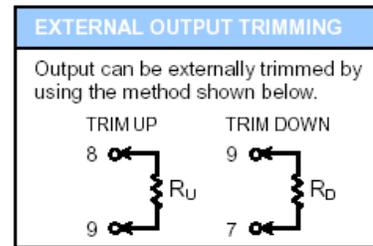
Note

- Maximum output deviation is 10% inclusive of remote sense and trim. If remote sense is not being used, the +Vsense should be connected to its corresponding +OUTPUT and likewise the sense should be connected to its corresponding -OUTPUT.
- The triple output required a minimum 10% loading on the output to maintain specified regulation. Operation under no-load condition will not damage these devices, however they may not meet all listed specification
- Load regulation for triple output:
Main output(V1):10 to 100% with 10% to 100% balanced on auxiliaries.
Auxiliary outputs(V2 and V3):10% to 100% balanced on all outputs.
- Cross regulation for triple output:
Main output 100% load, auxiliary 100%, other auxiliary 25% to 100%.
Auxiliary outputs(V2 and V3):main output 100% load, auxiliary 100%, other auxiliary 25% to 100% or main output 25%, auxiliary 25%, other auxiliary 25% to 100%.
- The models of FEC40-XXD3305 are specified with a 1uF ceramic output capacitors.
- An external filter capacitor is required for normal operation. The capacitor should be capable of handling 1A ripple current for 48V/24V models. Power mate suggest: Nippon chemi-con KMF series, 220 μF/100V, ESR 90mΩ.
- Simulated source impedance of 12uH. 12uH inductor in series with +Vin.
- The ON/OFF control pin voltage is referenced to negative input.
- Switching frequency for dual output:
master (5Vo) 300KHz slave (3.3Vo) 500KHz
- BELLCORE TR-NWT-000332. Case I: 50% Stress, Temperature at 40°C. (Ground fixed and controlled environment).
- Heat sink is optional and P/N : 7G-0026A.
- Any condition of dual output (3.3V/5V) rated lout current, not to exceed 8A of total output currents. The product safety approval pending..
- Maximum value at nominal input voltage and full load.
- Typical value at nominal input voltage and full load.
- Test by minimum Vin and constant resistor load.

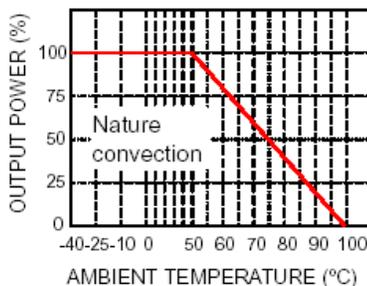


- All dimensions in Inches (mm)
- Pin pitch tolerance ±0.014(0.35)

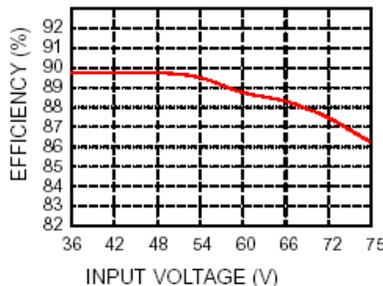
PIN CONNECTION			
PIN	SINGLE	DUAL	TRIPLE
1	+ INPUT	+ INPUT	+ INPUT
2	- INPUT	- INPUT	- INPUT
3	CTRL	CTRL	CTRL
4	NC	3.3V	+ AUX
5	- SENSE (Note1)	3.3V RTN (COM)	COMMON
6	+ SENSE (Note1)	NC	- AUX
7	+ OUTPUT	NC	+ OUTPUT
8	- OUTPUT	5V	- OUTPUT (COM)
9	TRIM	5V RTN (COM)	NC



FEC40-48S05
Derating Curve



FEC40-48S05
Efficiency VS Input voltage



FEC40-48S05
Efficiency VS Output load

