



CFB400W SERIES

400W WATTS 4:1 INPUT

DC-DC CONVERTERS

SINGLE OUTPUT



FEATURES

- * 400W Isolated Output
- * Efficiency to 90%
- * Fixed Switching Frequency
- * Input Under Voltage Protection
- * Over Temperature Protection
- * Over Voltage/Current Protection
- * Remote On/Off
- * Full-Brick Size Meet Industry Standard
- * Fully Isolated 1500VDC
- * Without Tantalum Capacitor Inside
- * UL60950-1 Approval



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		(%) EFF.		CAPACITIVE LOAD MAX. (4, 5, 6)
			MIN.	MAX.	NO LOAD	FULL LOAD	(2)	(3)	
CFB400W-24S05	9-36 VDC	5 VDC	0 mA	80 A	600 mA	19.05 A	86.5	87.5	10000uF
CFB400W-24S12	9-36 VDC	12 VDC	0 mA	33.3 A	120 mA	19.36 A	85	86	10000uF
CFB400W-24S24	9-36 VDC	24 VDC	0 mA	16.7 A	120 mA	19.19 A	88	87	4700uF
CFB400W-24S28	9-36 VDC	28 VDC	0 mA	14.3 A	120 mA	19.18 A	86.5	87	4700uF
CFB400W-24S48	9-36 VDC	48 VDC	0 mA	8.3 A	120 mA	19.19 A	85.5	86.5	2200uF
CFB400W-48S05	18-75 VDC	5 VDC	0 mA	80 A	300 mA	9.36 A	88.5	89	10000uF
CFB400W-48S12	18-75 VDC	12 VDC	0 mA	33.3 A	60 mA	9.41 A	88.5	88.5	10000uF
CFB400W-48S24	18-75 VDC	24 VDC	0 mA	16.7 A	60 mA	9.28 A	90	90	4700uF
CFB400W-48S28	18-75 VDC	28 VDC	0 mA	14.3A	60 mA	9.27 A	90.5	90	4700uF
CFB400W-48S48	18-75 VDC	48 VDC	0 mA	8.3 A	60 mA	9.27 A	88	89.5	2200uF

NOTE:

1. Nominal Input Voltage 24, 48 VDC.
2. Measured at 12VDC for 24Vin, 24VDC for 48Vin.
3. Measured at Nominal Input Voltage.
4. The output terminal of 12V, 24V, 28V Vout models required a minimum capacitor 330uF to maintain specified regulation.
5. The output terminal of 5Vout models required a minimum capacitor 680uF to maintain specified regulation.
6. The output terminal of 48Vout models required a minimum capacitor 100uF to maintain specified regulation.

SPECIFICATIONS

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

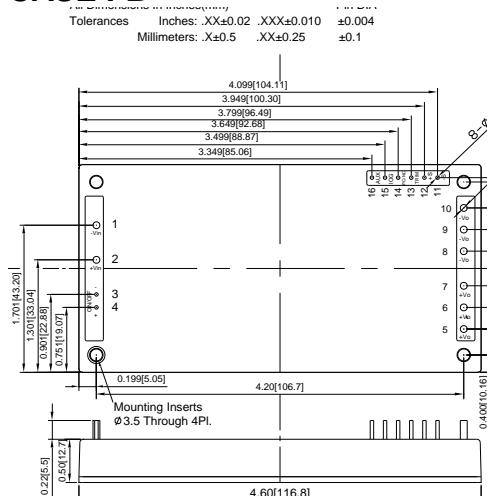
INPUT SPECIFICATIONS:

Input Voltage Range	24V	9-36V
	48V	18-75V
Under Voltage Lockout	24Vin power up	8.5V
	24Vin power down	7.5V
	48Vin power up	17V
	48Vin power down	15V
Input Over Voltage Protection	24Vin Turn off ... 42V, Turn on ... 40V	
	48Vin Turn off ... 83V, Turn on ... 80V	
Opto Isolated Remote On/Off (note6)		
Input Filter		LC Type

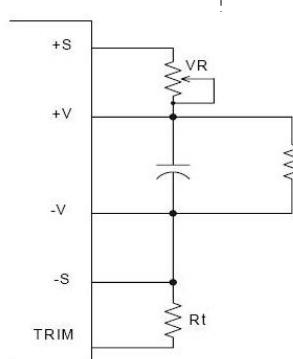
OUTPUT SPECIFICATIONS:

Voltage Accuracy	±1.0% max.
Transient Response: 25% Step Load Change	<500µs
External Trim Adj. Range	80-110%
Load Share Accuracy	±10% at 50% to 100% Full Load
Auxiliary Output Voltage/Current	10±3Vdc/20mA max.
Ripple & Noise, 20MHz BW (note3)	
5V	40mV RMS max., 100mV pk-pk max.
12V	60mV RMS max., 120mV pk-pk max.
24V	100mV RMS max., 240mV pk-pk max.
28V	100mV RMS max., 280mV pk-pk max.
48V	120mV RMS max., 480mV pk-pk max.
Temperature Coefficient	±0.03%/°C max.
Short Circuit Protection	Continuous
Line Regulation (note1)	±0.2% max.
Load Regulation (note2)	±0.5% max.
Over Voltage Protection Trip Range, % Vo nom.	115-140%
Current Limit	110%-150% Nominal Output
Start up time	120ms typ.

CASE FB



PIN CONNECTIONS	
PIN NUMBER	FUNCTION
1	-V Input
2	+V Input
3	-On/Off
4	+On/Off
5 - 7	+V Output
8 - 10	-V Output
11	-S
12	+S
13	TRIM
14	PC/NC
15	IOG
16	AUX



The output voltage can be determined by below equations:

$$V_f = \frac{Rt \times 33}{Rt + 33}$$

$$7.68 + \frac{Rt \times 33}{Rt + 33}$$

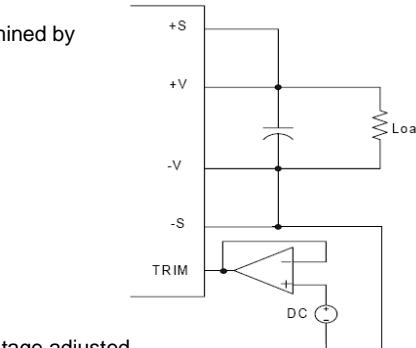
$$Vout = (Vo + VR) \times Vf$$

Unit: KΩ

Vo: Nominal Output Voltage

Rt=6.8KΩ

Fig.1 The schematic of output voltage adjusted by using external resistor and/or variable resistor.



Output Voltage = TRIM
Terminal Voltage * Nominal
Output Voltage

Fig.2 The schematic of
output voltage adjusted by
using external DC voltage.

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