

DC DC

Part Num

CFB200 SERIES

## 100-200 WATT FULL BRICK DC-DC CONVERTERS



### Features:

- 100-200W Isolated Output
- Full Brick Package
- Regulated Outputs
- Efficiency to 90%
- 300KHz Switching Frequency
- Continuous Short Circuit Protection
- Remote On/Off Control

### Safety Approvals



### Electrical Characteristics:

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		%EFF	SIZE
				NO LOAD	FULL LOAD		
CFB200-48S25	36-75 VDC	2.5 VDC	40A	25 mA	2.8A	74	Full-Brick
CFB200-48S33	36-75 VDC	3.3 VDC	40A	25 mA	3.5A	79	Full-Brick
CFB200-48S05	36-75 VDC	5 VDC	40A	25 mA	5A	83	Full-Brick
CFB200-48S12	36-75 VDC	12 VDC	17A	25 mA	5A	85	Full-Brick
CFB200-48S15	36-75 VDC	15 VDC	13.3A	25 mA	5A	85	Full-Brick
CFB200-48S24	36-75 VDC	24 VDC	8.33A	25 mA	5A	85	Full-Brick
CFB200-48S28	36-75 VDC	28 VDC	7.14A	25 mA	4.7A	89	Full-Brick
CFB200-48S48	36-75 VDC	48 VDC	4.2A	25 mA	4.7A	90	Full-Brick

NOTE: 1. Nominal Input Voltage 48 VDC



## Specification

### INPUT SPECIFICATIONS:

Input Voltage Range.....	48V.....	36-75V
Undervoltage lockout .....	48Vin power up .....	34V
	48Vin power down .....	32.5V
Positive Logic Remote ON/OFF3, 4		
Input Filter .....		PI Type

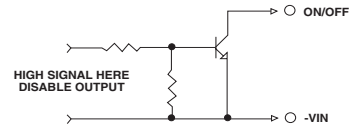
### OUTPUT SPECIFICATIONS:

Voltage Accuracy : .....	±1% max.
Transient Response :25% Step Load Change.....	<500µ sec.
External Trim Adj. Range .....	±10%
Ripple & Noise, 20MHz BW, 2.5V & 3.3V & 5V.....	40mV RMS., max.
	100mV pk-pk, max.
	150mV pk-pk, max.
12V & 15V.....	60mV RMS., max.
	150mV pk-pk, max.
24V & 28V & 48V.....	100mV/150mV/200mV RMS., max.
	240mV/280mV/480mV pk-pk, max.
Temperature Coefficient.....	±0.03%/°C
Short Circuit Protection.....	Continuous
Line Regulation1 .....	±0.2% max.
Load Regulation2 .....	±0.2% max.
Over Voltage Protection trip Range, % Vo nom.....	115-140%
Current Limit .....	110% ~140% Nominal Output

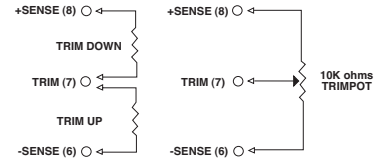
### GENERAL SPECIFICATIONS:

Efficiency.....	See Table
Isolation Voltage .....	Input/Output.....1500VDC min.
	Input/Case.....1500VDC min.
	Output/Case.....1500VDC min.
Isolation Resistance .....	107 ohm min.
Switching Frequency .....	350KHz, Typ.
Operating Case Temperature .....	-40°C to 100°C
Storage Temperature .....	-40°C to +105°C
Thermal Shutdown, case Temp. ....	100°C Typ.
Dimensions .....	4.60x2.40x0.52 inches (116.8x61.0x13.2 mm)
Case Material.....	Aluminum Baseplate with Plastic Case
Weight.....	193g

## Remote On/Off Control



### External Output Trim



### PIN CONNECTION

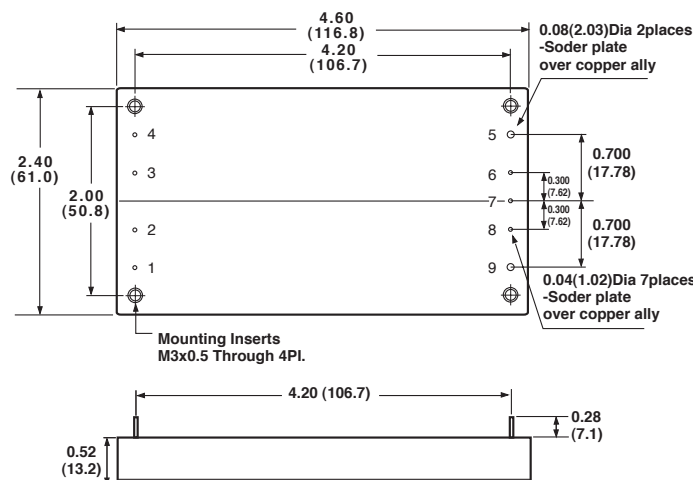
Pin	Function
1	+V Input
2	ON/OFF
3	NC
4	-V Input
5	-V Output
6	-Sense
7	Trim
8	+Sense
9	+Vout

### NOTES:

1. Measured From High Line to Low Line.
2. Measured From Full Load to Zero Load.
3. Logic Compatibility ..... Open Collector Ref. to -Input.  
Module ON ..... Open Circuit  
Module OFF..... <0.8Vdc
4. Suffix "N" to the Model Number with Negative Logic Remote ON/OFF.

## CASE FB

All Dimensions In Inches(mm)  
Tolerance Inches: x.xx= ±0.02, x.xxx= ±0.010  
Millimeters: x.x= ±0.5, x.xx= ±0.25



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