

# CFB200

## 200 WATT WIDE INPUT DC-DC CONVERTERS SINGLE OUTPUT



### Features

- 100-200W Isolated Output
- Efficiency to 85%
- 300KHz Switching Frequency
- 2 : 1 Input Range
- Regulated Outputs
- Continuous Short Circuit Protection
- Industry Standard Full-Brick Package

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

NOTE : 1. Nominal Input Voltage 48 VDC

### Specifications

#### INPUT SPECIFICATIONS:

Input Voltage Range..... 48V.....36-75V  
 Undervoltage lockout ..... 48Vin power up ..... 34V  
 48Vin power down ..... 32.5V  
 Positive Logic Remote ON/OFF<sup>3,4</sup>  
 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.  
 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 Regulation<sup>1</sup> ..... ±0.2% max.  
 Load Regulation<sup>2</sup> ..... ±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 ..... 10<sup>7</sup> ohm min.  
 Switching Frequency ..... 300KHz, Typ.  
 Operating case Temperature ..... -40°C to 100°C  
 Storage Temperature ..... -40°C to +105°C  
 Thermal Shutdown, Case Temp. .... 100°C Typ.  
 Dimensions ..... 4.60x2.40x0.53 inches  
 (116.8x61.0x13.5 mm)  
 Case Material ..... Aluminum Baseplate with Plastic Case  
 Weight..... 193g

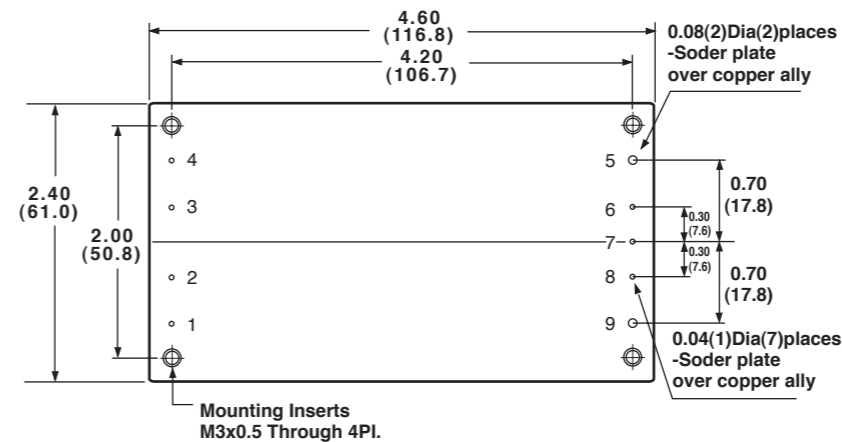
#### NOTE:

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)

Tolerances	Inches	.XX±.02	.XXX±.010	±0.02	Pin
	Millimeters	.X±.5	.XX±.25	±0.5	



PIN CONNECTION	
Pin	Function
1.	+Vin
2.	ON/OFF
3.	NC
4.	-Vin
5.	-Vout
6.	-Sense
7.	Trim
8.	+Sense
9.	+Vout

