

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 NO LOAD	INPUT CURRENT FULL LOAD	%EFF	CASE
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	25 mA	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^{3,4}
 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.
 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 10⁹ 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

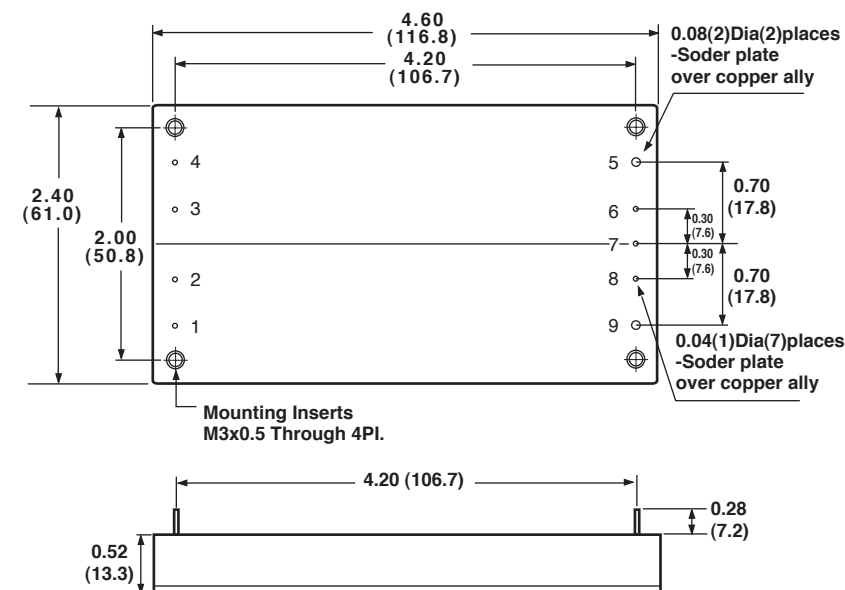
NOTE:

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)

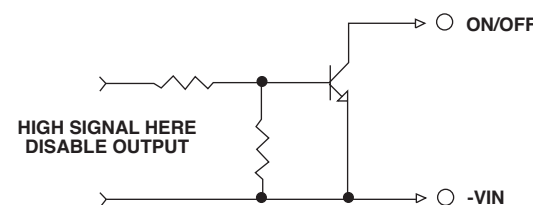
Tolerances	Inches	.XX±.02	.XXX±.010	Pin
	Millimeters	.X±.5	.XX±.25	±0.02 ±0.5



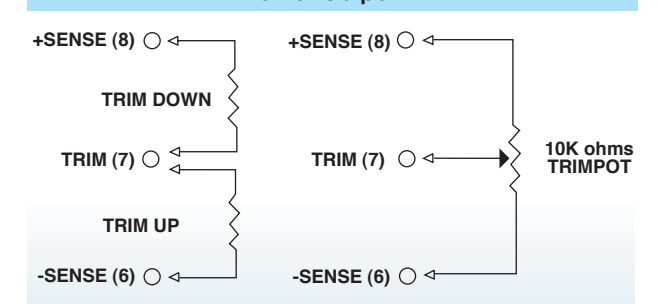
PIN CONNECTION

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

Remote ON/OFF Control



External Output Trim



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