



CFB600-300S SERIES 600 WATT 2:1 INPUT DC-DC CONVERTERS

FEATURES

- * 600W Isolated Output
- * Efficiency to 91%
- * Fixed Switching Frequency
- * Input Under-Voltage Protection
- * Over Temperature Protection
- * Over Voltage/Current Protection
- * Remote On/Off
- * Single Wire Parallel
- * Industry Full-Brick Package
- * UL 60950-1 Approval
- * Fully Isolated 3000VAC



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% Eff.	CAPACITIVE LOAD MAX.
			MIN.	MAX.	NO LOAD	FULL LOAD		
CFB600-300S12	180-425 VDC	12 VDC	0 mA	50 A	10 mA	2.24 A	89.5	10000uF
CFB600-300S24	180-425 VDC	24 VDC	0 mA	25 A	10 mA	2.21 A	90.5	10000uF
CFB600-300S48	180-425 VDC	48 VDC	0 mA	12.5 A	10 mA	2.20 A	91	8000uF

NOTE:

1. Nominal Input Voltage 300 VDC.
2. The output terminal required a minimum capacitor 470uF to maintain specified regulation.
3. Measure at Nominal Input Voltage.

SPECIFICATIONS

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

INPUT SPECIFICATIONS:

Input Voltage Range	300V	180-425V
Input Over Voltage Protection	Module on	480V
	Module off	500V
Under Voltage Lockout	300Vin Power Up	170V
	300Vin Power Down	160V
Positive Logic Remote On/Off (note5&6)		
Input Filter		Capacitive

OUTPUT SPECIFICATIONS:

Voltage Accuracy	±1.0% max.
Transient Response:25% Step Load Change	<500µs
External Trim Adj. Range (note4)	60-110%
Load share Accuracy	±10% at 50% to 100% Full Load
Auxiliary output voltage/current	10±3Vdc/20mA max.
Ripple & Noise, 20MHz BW (note3)	
12V	75mV RMS max., 150mV pk-pk max.
24V	120mV RMS max., 240mV pk-pk max.
48V	200mV RMS max., 480mV pk-pk max.
Temperature Coefficient	±0.03%/°C
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	105% -125% Nominal Output
Start up time	40ms typ.

FB Dimensions:

All Dimensions in Inches[mm]
 Tolerance Inches:x.xx=±0.02, x.xxx=±0.01
 Millimeters:x.x=±0.5, x.xx=±0.25

Pin
 ±0.0.04
 ±0.1

