ELECTRICAL SPECIFICATIONS*2 CB101 (10,000V)

PARAMETER	VALUE
INPUT VOLTAGE	+11.5 to +16 VDC
INPUT CURRENT	<100 mA, No Load
	<225 mA, Full Load
INPUT CAPACITANCE	440 uF low ESR
PROGRAMMING VOLTAGE	0 to +5VDC, <100uA
PROGRAMMING VOLTAGE OVERVOLTAGE	<5.25VDC
REFERENCE VOLTAGE	5VDC, 2mA
CURRENT MONITOR	0 to +5VDC (Load current 0 to 100%), Error <0.5% ^{*6}
VOLTAGE MONITOR	0 to +5VDC (Load voltage 0 to 100%), Error <0.5%*6
RESPONSE TIME	<250msec (Full Load, full scale response) (10–90%)
SETPOINT ACCURACY ¹⁷	Adjustable +/- 1% (using gain adjust)
LINEARITY ¹⁷	<1 % (20% to 100% Vout)
STABILITY	<0.01%/hr/8hrs
ТЕМРСО	<50 ppm/°C*3
THERMAL SHOCK LIMIT	1°C /10 seconds
OPERATING TEMPERATURE	-10 to +60°C ^{⁺₅} (CASE) (For wider range consult factory)
STORAGE TEMPERATURE	-20 to +100°C
THERMAL SHUTDOWN	> 85°C (CASE)

DETAILED PRODUCT DESCRIPTION

The CB Series is new line of miniature, well-regulated high voltage power supplies. The modules are programed from 0 to 100% of rated output via a 0 to +5 volt DAC compatible high impedance programming input voltage. The CB Series features current and voltage monitoring, built-in protection against programming overvoltage, and thermal shutdown. Temperature drift is typically less than 50 PPM/°C. A built-in reference voltage source can be used in lieu of the programming voltage. The CB Series exhibits very low ripple, noise,

and EMI/RFI by utilizing a quasi-sinewave oscillator, shielded transformer, excellent filtering techniques, and an isolated steel enclosure featuring a separate grounding pin. An externally accessible potentiometer provides adjustable gain trim, allowing for individual calibration of units. A proprietary encapsulation process and high performance formula are used to achieve excellent high voltage and thermal properties. Positive and negative outputs are offered.



POWER DERATING CURVE



