

CB30S

30 Watts Output Power

SINGLE OUTPUT



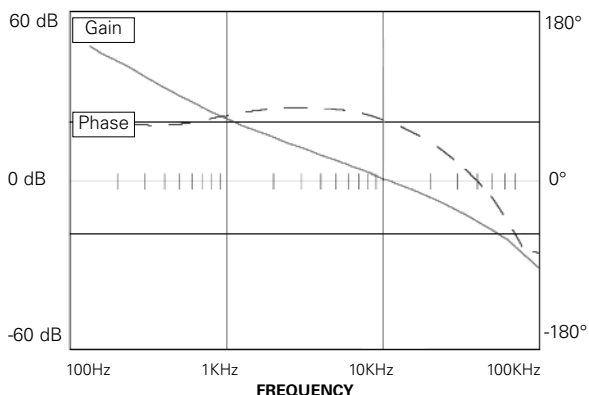
How to Order

CB	30	S	M	/	5	-	C	-	D
Series	Total Output Power	Single Output	Unscreened (I) or Screened (M)	Output Voltage: Maximum current as stated in selection chart	Options	Options: B - pins out bottom of unit C - pins out top of unit D - through hole inserts (.115 DIA) I - M2.5 inserts (STD 4 - 40 Inserts)			

INPUT CHARACTERISTICS

	Min.	Typ.	Max.	Units
Input Voltage	16	28	40	Vdc
Brown Out (75% of Full Load) [fig. I]*			13.5	Vdc
Logic Disable Current (Sink)			150	μA
Logic Disable Power In		300		mW
Efficiency (FL) [fig. II, III]*				
>=5 Vdc Output (FL)	80			%
<5 Vdc Output (FL)	65			%
EMI: Units conform to MIL-STD-461D with companion filter module (CBF30)				
Input Transient: Units can withstand 50V transients for up to 100 ms per MIL-STD-704E				

STABILITY



FEATURES

- .38 Inch Profile
- Remote Turn On (TTL)
- Output Overvoltage Protection
- Output Overcurrent Protection
- Over Temperature Protection
- Output Voltage Trim
- 100% Environmental Screening (M Models)

SELECTION CHART

Nominal Output Voltage (Volts)	Output Current (Amps)	Model Number (Unscreened)	Model Number (Screened)
2	6.0	CB30SI/2-C	CB30SM/2-C
3.3	6.0	CB30SI/3.3-C	CB30SM/3.3-C
5	6.0	CB30SI/5-C	CB30SM/5-C
5.2	5.8	CB30SI/5.2-C	CB30SM/5.2-C
12	2.5	CB30SI/12-C	CB30SM/12-C
15	2.0	CB30SI/15-C	CB30SM/15-C
24	1.3	CB30SI/24-C	CB30SM/24-C
28	1.1	CB30SI/28-C	CB30SM/28-C

OUTPUT CHARACTERISTICS

	Min.	Typ.	Max.	Units
Set Point Accuracy ¹		25	50	mV
Load Regulation ²		10	20	mV
Line Regulation ³		10	20	mV
Ripple P - P ⁴ (10 MHz) [fig. IV]*		50	100	mV
Overvoltage Protection		125		% V _{out}
Transient Response (V _{out} 1%) Time/Overshoot [fig. V & VI]*				
20 - 80% Load (@ Nom. Line)		250/250	500/500	μS/mV
Low Line - High Line		250/250	500/500	μS/mV
50 - 100% Load (@ Nom. Line)		250/250	500/500	μS/mV
Temperature Drift		0.01	0.05	%/°C
Current Limit	105		150	% I _{out}
Short Circuit Current	25	50	75	% I _{out}
Trim Range	90		110	% V _{out}
Turn On Time [fig. XI]*		5		mS
Logic Turn On Time [fig. IX]*		2.5		mS

¹ 1% or 50mV, whichever is greater

² or 0.2% maximum, whichever is greater from no load to full load

³ or 0.2% maximum, whichever is greater from low line to high line

⁴ or 1% maximum, whichever is greater

* see figures on page 13

All specifications are typical @+25°C with nominal input voltage and under full output load conditions, unless otherwise noted. Specifications are subject to change without notice.

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