



25 ~ 75 Watts DIP Type Single Output DC - DC Converter

FEATURES

- 2:1 Input Range / Efficiency To 89% / Regulated Outputs
- CE Mark Meets 2006/95/EC, 93/68/EEC, and 89/336/EEC
- Safety Meets UL60950-1, EN60950-1, and IEC60950-1
- Five-Sided Metal Case / Half-Brick meet Industrial Standard

SPECIFICATIONS

Input Voltage Range.....12V: 9-18VDC
24V: 18-36VDC / 48V: 36-75VDC

Undervoltage Lockout.....
12Vin power up: 8.8VDC / power down: 8VDC
24Vin power up: 17VDC / power down: 16VDC
48Vin power up: 34VDC / power down: 32.5VDC

Positive Logic Remote On/Off.....See note 3 & 4

Input Filter.....PI Type

Voltage Accuracy..... $\pm 1\%$ max.

Transient Response: 25% Step Load..... $< 500 \mu s$.

External Trim Adj. Range..... $\pm 10\%$

R & N (20MHz BW).....2.5, 3.3 & 5V.....75mVpk-pk max.

12V & 15V: 100mVpk-pk max. / 24V: 240mVpk-pk max.

Temperature Coefficient..... $\pm 0.03\%/^{\circ}C$ max.

Short Circuit Protection.....Continuous

Line Regulation..... $\pm 0.2\%$ max.

Load Regulation..... $\pm 0.2\%$ max.

OVP trip Range, % Vo nom.....115-140%

Current Limit.....110%~150% Nominal Output

Isolation Voltage.....1500VDC min.

Isolation Resistance..... 10^7 ohm min.

Switching Frequency.....12/24Vin.....400KHz, Typ.

48Vin.....300KHz, Typ.

Operating Case Temperature.....-40°C To +100°C

Storage Temperature-55°C To +105°C

Thermal Shutdown, Case Temp.100°C Typ.

Case Material.....Aluminum

Weight.....CHB50 : 88g ; CHB75 : 92g

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# with Negative Logic Remote On/Off.

Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (A)	EFF. %	Capacitor Load Max.
CHB50-12S25	9-18	2.5	0~10.0	76	10000 μF
CHB50-12S33	9-18	3.3	0~10.0	79	10000 μF
CHB50-12S05	9-18	5	0~10.0	83	10000 μF
CHB50-12S12	9-18	12	0~4.16	87	4000 μF
CHB50-12S15	9-18	15	0~3.33	87	2000 μF
CHB50-12S24	9-18	24	0~2.08	87	1500 μF
CHB50-24S25	18-36	2.5	0~10.0	78	10000 μF
CHB50-24S33	18-36	3.3	0~10.0	81	10000 μF
CHB50-24S05	18-36	5	0~10.0	85	10000 μF
CHB50-24S12	18-36	12	0~4.16	88	10000 μF
CHB50-24S15	18-36	15	0~3.33	88	4000 μF
CHB50-24S24	18-36	24	0~2.08	88	2000 μF
CHB50-48S25	36-75	2.5	0~10.0	77	10000 μF
CHB50-48S33	36-75	3.3	0~10.0	81	10000 μF
CHB50-48S05	36-75	5	0~10.0	84	10000 μF
CHB50-48S12	36-75	12	0~4.16	88	10000 μF
CHB50-48S15	36-75	15	0~3.33	88	4000 μF
CHB50-48S24	36-75	24	0~2.08	89	2000 μF
CHB75-12S25	9-18	2.5	0~15.0	76	10000 μF
CHB75-12S33	9-18	3.3	0~15.0	78	10000 μF
CHB75-12S05	9-18	5	0~15.0	83	10000 μF
CHB75-12S12	9-18	12	0~6.25	87	10000 μF
CHB75-12S15	9-18	15	0~5.00	86	4000 μF
CHB75-12S24	9-18	24	0~3.13	87	2000 μF
CHB75-24S25	18-36	2.5	0~15.0	77	10000 μF
CHB75-24S33	18-36	3.3	0~15.0	80	10000 μF
CHB75-24S05	18-36	5	0~15.0	84	10000 μF
CHB75-24S12	18-36	12	0~6.25	88	10000 μF
CHB75-24S15	18-36	15	0~5.00	88	4000 μF
CHB75-24S24	18-36	24	0~3.13	88	2000 μF
CHB75-48S25	36-75	2.5	0~15.0	77	10000 μF
CHB75-48S33	36-75	3.3	0~15.0	81	10000 μF
CHB75-48S05	36-75	5	0~15.0	84	10000 μF
CHB75-48S12	36-75	12	0~6.25	89	10000 μF
CHB75-48S15	36-75	15	0~5.00	88	4000 μF
CHB75-48S24	36-75	24	0~3.13	89	2000 μF

MECHANICAL DRAWING (Unit: inch(mm))

