

BQ SERIES

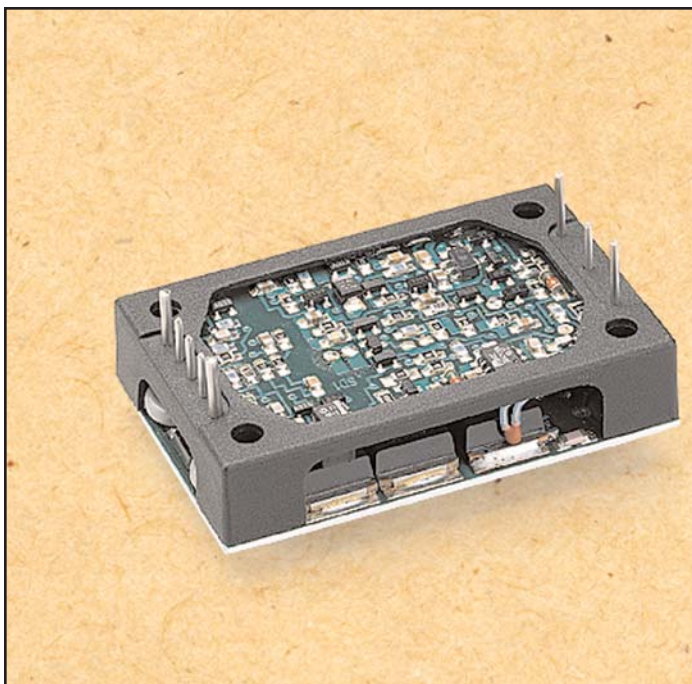
INDUSTRY STANDARD QUARTER BRICK

FEATURES

- High Efficiency - 86% @ 3.3V and 5V (typical)
- Overcurrent Protection
- Remote Sense
- Remote On/Off (primary referenced, negative or positive logic)
- Output Voltage Adjustment (trim)
- Water Washable
- Heatsink Mountable
- Fixed Frequency
- UL/CUL 1950 and EN60950
- CE mark, LVD, 48Vin only

THE BQ SERIES FROM WALL INDUSTRIES

The BQ Series of DC/DC Converters is a single output, highly efficient, high reliability and low cost design, to meet the needs of today's power requirements. The BQ Series perform exceptionally well in Telecom, Networking and Industrial Applications.



SPECIFICATIONS: BQ SERIES

INPUT SPECIFICATIONS

Input Voltage Range.....36-75VDC
 Nominal Input.....48VDC
 Remote On/Off.....ref. -Vin (see note 1)

OUTPUT SPECIFICATIONS

Current.....See table
 Tolerance..... $\pm 1\%$
 Line Regulation(LL-HL)..... $\pm 0.1\%$
 Load Regulation..... $\pm 0.1\%$
 Short Circuit Protection Inception.....125%
 Overvoltage Protection.....120%
 Ripple/Noise.....1% Vout Nom., 20MHz BW
 External Trim Voltage Range..... $\pm 10\%$
 Short CircuitContinuous and Auto Recovery
 Switching Frequency.....5V and Lower 400kHz (typ)

GENERAL SPECIFICATIONS

Efficiency.....Model Specific, Consult Factory
 Isolation Voltage, input to output.....1500VDC min.
 Isolation Resistance.....100MOhms
 Minimum Load.....Varies by model, consult factory

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....-40°C to +100°C Case
 Storage Temperature.....-55°C to +125°C
 Temperature Coefficient.....0.02%/°C
 Thermal Shutdown Range.....105 to 115°C

PHYSICAL SPECIFICATIONS

Package size.....2.28" X 1.45" X 0.50"

All specifications apply at +25°C ambient unless otherwise noted.

Input Voltage	Output Voltage	Output Current	Model Number
36-75	1.5	20A	BQ48S1.5-30A
	1.8	20A	BQ48S1.8-36A
	2	20A	BQ48S2-40A
	2.5	20A	BQ48S2.5-50A
	3.3	20A	BQ48S3.3-66A
	5	10A	BQ48S5-50A
	5	15A	BQ48S5-75A
	5	20A	BQ48S5-100A
	12	10A	BQ48S12-120A
	15	10A	BQ48S15-150A

note: 1) "A" suffix is for open construction
 2) for other input voltages, please consult the factory at: mail@wallindustries.com

A = open frame R = reverse logic T = Tyco® trim

NOTES:

- 1) For negative logic, Remote ON/OFF, add "R" suffix
- 2) Standard lead length .125"
 suffix 1 = .110"
 suffix 2 = .150"
 suffix 3 = .180"
 suffix 4 = .210"
 suffix 5 = .145"
- 3) For other input voltages, please contact the factory at 1 (888) 597-WALL.
- 4) 3.3V out and less have inserts at 2 places.
- 5) Add "T" suffix for Tyco® trim-compatible.

