

FEATURES

- Low profile, single board construction
- Very high efficiency
- Remote Sense
- Remote On/Off (negative or positive logic)
- Output Voltage Adjustment (industry standard)
- Water Washable
- Constant Frequency
- Overcurrent/short circuit protection
- Low cost, high performance
- No load operation
- Input undervoltage lockout
- Thermal shutdown
- Overvoltage protection
- No external filtering required
- Startup into pre-biased load



THE LPQ SERIES FROM WALL INDUSTRIES

Using industry standard quarter brick pin-out, the LPQ series is a single board construction low profile dc/dc converter. Key features are very high efficiency and low cost. This product offers great performance in networking, telecom, and industrial applications.

SPECIFICATIONS: LPQ SERIES

INPUT SPECIFICATIONS

Input Voltage Range.....36-75VDC
 Input filter.....Pi type
 UVLO.....33V Typ.
 Logic Enable.....positive or negative

OUTPUT SPECIFICATIONS

Output Current.....See table
 Voltage Accuracy.....±1%
 Line Regulation(LL-HL).....0.1%
 Load Regulation.....0.2%
 Short Circuit Protection.....continuous
 Ripple/Noise (20MHz BW).....100mVpp
 Transient Response (25% load step).....100 us (to 1% Vout)
 Overvoltage Protection.....125%
 Output Trim.....±10%
 Power Foldback.....130% rated Po
 Minimum Load Required.....None

GENERAL SPECIFICATIONS

Efficiency.....up to 92%
 Isolation Voltage (input to output).....1500VDC
 Isolation Resistance.....100MOhms
 Switching Frequency.....350 KHz

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature.....-40°C to +125°C Tj
 Storage Temperature.....-50°C to +125°C
 Humidity (non-condensing).....95%
 Thermal Shutdown.....115°C (PCB)

PHYSICAL SPECIFICATIONS

Package size.....1.45" X 2.28" X 0.45"
 Weight.....1.0 oz. typ.
 Pinout.....Industry Standard

*All specifications apply at 25°C ambient, unless otherwise noted.
 Due to advances in technology, specifications subject to change without notice.*

11/16/02

Input Voltage	Output Voltage	Output Current	Model Number
36-75	1.8	10A	LPQ48S1.8-18
	2	10A	LPQ48S2-20
	2.5	10A	LPQ48S2.5-25
	3.3	10A	LPQ48S3.3-33
	5	10A	LPQ48S5-50
	1.8	15A	LPQ48S1.8-27
	2	15A	LPQ48S2-30
	2.5	15A	LPQ48S2.5-38
	3.3	15A	LPQ48S3.3-50
	5	15A	LPQ48S5-75

NOTES:

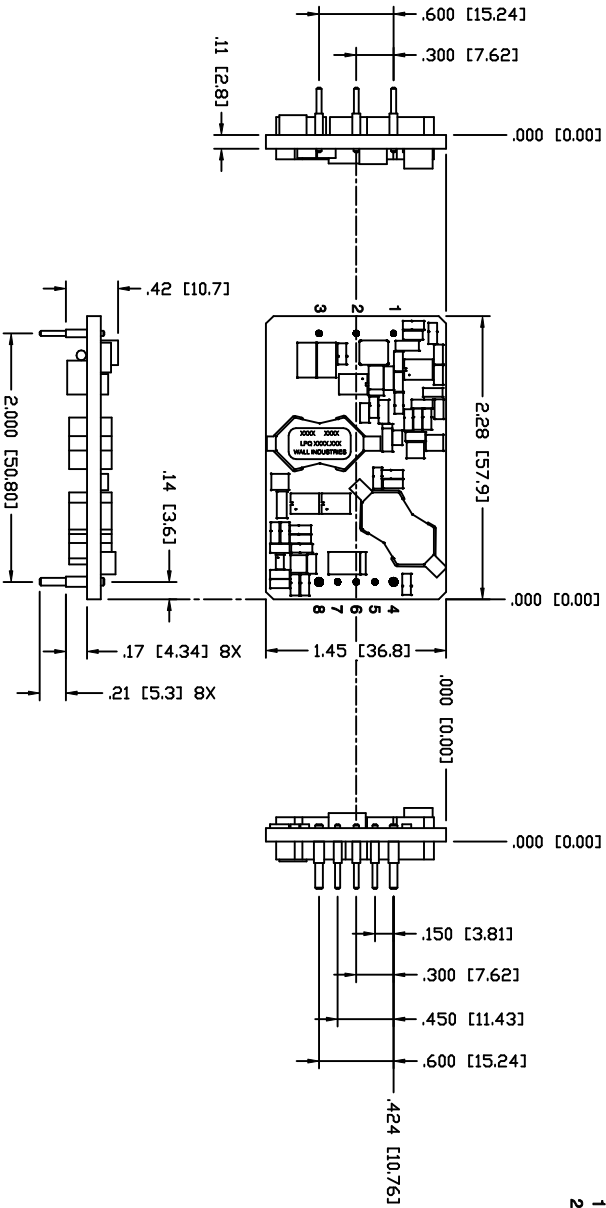
- 1) For negative logic, Remote ON/OFF, add "R" suffix
- 2) For other input voltages, please contact the factory at 1 (888) 597-WALL.

DRAWING NO: AY105666 SHEET 1 OF 1

ECO NO:	REV.	DESCRIPTION	CHG/DATE	APPROVED	DATE
—	A	ISSUE FOR PRODUCTION	—	S.P.	05-20-02
3287	B	UPDATED TO NEW PIN DESIGN	KAP/10-11-02		

NOTES:

1. DIMENSIONS ARE FOR REFERENCE ONLY UNLESS OTHERWISE NOTED.
2. PIN TO PIN TOLERANCE $\pm .01$ [± 0.2].
3. PIN DIAMETER TOLERANCE $\pm .005$ [$\pm .13$].



PIN ASSIGNMENT	PIN Ø
1 +INPUT	Ø.040
2 ON/OFF	Ø.040
3 -INPUT	Ø.040
4 +OUTPUT	Ø.080
5 +SENSE	Ø.040
6 TRIM	Ø.040
7 -SENSE	Ø.040
8 -OUTPUT	Ø.080

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UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES(MM), TOLERANCE ON: ANGLES N/A XX - N/A XXX - N/A REMOVE ALL BURRS AND BREAK SHARP EDGES. INTERPRET DIMENSION AND TOLERANCE PER ASME Y14.5M - 1994		DRAWN BY: KERNANN PRICE	DATE: 05-20-02
CHECKED: PROJECT ENGR: MECHANICAL ENGR: MANUFACTURING ENGR:		TITLE: WALL INDUSTRIES, INC. 5 WATSON BERKOW ROAD SUITE 141 HARTFORD, CT 06105 USA PH: 803-778-2900 FAX: 803-778-9797	
THIRD ANGLE PROJECTION		SCALE: N/A	
FIRST USED ON: "LPQ" SERIES		DRAWING NO: AY105666	
SIZE: B		Fi: ay105666_b.dwg	
SHEET 1 OF 1		REV. B	