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 Repsonse (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.

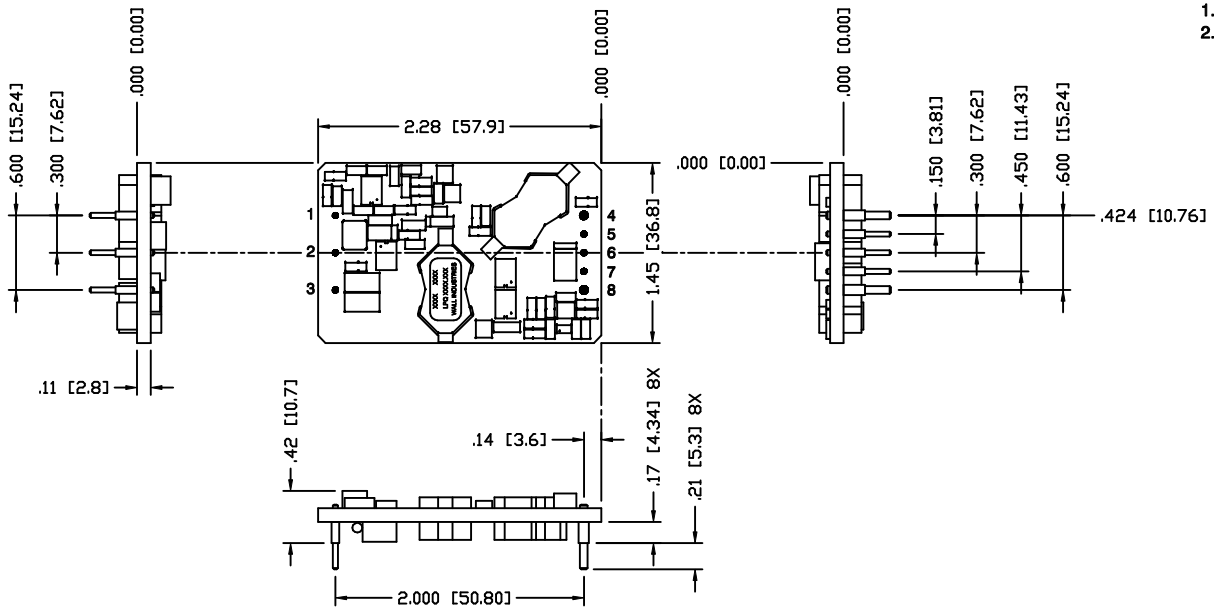
11/16/02

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 ±.01 [±0.2].
   PIN DIAMETER TOLERANCE ±.005 [±.13].



PIN ASSIGNMENT		PIN Ø
1	+INPUT	Ø.040
2	ON/OFF	Ø.040
3	-INPUT	Ø.040
4	+OUTPUT	Ø.060
5	+SENSE	Ø.040
6	TRIM	Ø.040
7	-SENSE	Ø.040
8	-OUTPUT	Ø.060

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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

THIRD ANGLE PROJECTION

DRAWN BY: KERI-ANN PRICE | DATE: 05-20-02
CHECKED:
PROJECT ENGR:
MECHANICAL ENGR:
MANUFACTURING ENGR:

FIRST USED ON: "LPQ" SERIES

WALL INDUSTRIES, INC.
5 WATSON BROOK ROAD
EXETER, NH 03833 USA
PH: 603-778-2300 FAX: 603-778-9797

TITLE:
OUTLINE DRAWING "LPQ & MPQ" SERIES

SIZE	DRAWING NO:	REV.
B	AY105666	B

SCALE: N/A | FI: ay105666_b.dwg | SHEET 1 OF 1