

DC-DC Converters



Series LPB Single and Series LPB Dual

Isolated Regulated 75 Watts, Wide Input Range/36-72 VDC
Fully Regulated, Short Circuit Protected
Parallel Operation Available

Features:

- Dual isolated outputs
- Short circuit protection
- Input voltage protection
- Thermal, over temp. shutdown
- Line regulation
- Load regulation
- No external components required
- Hi density, hi efficiency design
- Remote shutdown
- Trim capabilities
- Fixed frequency-100 Khtz

Typical Characteristics:

Frequency: 100 Khtz
Base plate: Max. +85° C
Operating temperature: See thermal chart, Min. 0° C ambient, Max. +85° C base plate temp.
Test conditions: 25° C ambient
Isolation Base Input: 2121 VDC
Isolation Input Output: 4242 VDC
Isolation Output to Base: 1000 VDC
Storage temperature: -55° C to +105° C

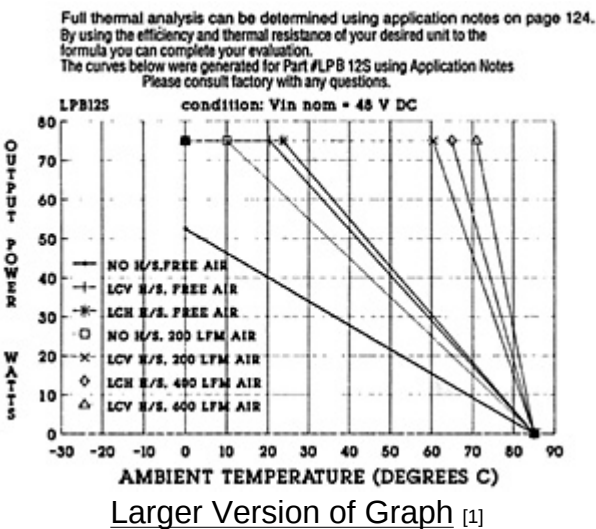
- 23 Standard Models
 Hi Density 75 Watts
 Fixed Frequency
- For all variations, call factory.

For Parallel Operation: Add suffix "P" (i.e. LPB5SP). Consult factory to optimize for your application.

The PICO LPB Series of high power DC-DC Converters, allow a wide input voltage of 36-72 VDC, while maintaining a regulated output. They are fully safeguarded for over voltage, over temperature and continuous short circuit protection.

The availability of Dual Isolated Outputs, small size, and the capability of parallel operations as standard features should reduce your design and component costs, while the fixed frequency operation helps parallel connections for higher power requirements.

This high density unit is assembled in the USA with PICO quality and component selection, allowing it to meet the most stringent commercial requirements.



Series LPB Single * 75 Watts * Input 36-72 VDC											
Pico Part No.	Input Voltage Range (V DC)	Output Voltage (V DC)	Max. Output Power * (W)	EFF. Full Load Typical ** (%)	Max. Load Regulation (%)		Max. Line Regulation At Full Load (%)		Output Voltage Ripple (Full Load) 1-1MHz BW (MV P-P)	Output Voltage Tolerance ** (± %)	Price (US \$)
					10-50%	50-100%	36-48 V	48-72 V			
LPB3.3S	36-72	3.3	30	74	1.5	1.5	0.75	0.75	50	2.0	221.58
LPB5S	36-72	5	50	80	1.0	1.0	0.75	0.75	50	1.5	221.58
LPB5.2S	36-72	5.2	50	80	1.0	1.0	0.75	0.75	50	1.5	221.58
LPB9S	36-72	9	65	84	1.0	1.0	0.75	0.75	50	1.0	221.58
LPB12S	36-72	12	75	84	0.75	0.75	0.5	0.5	50	1.0	221.58
LPB15S	36-72	15	75	84	0.75	0.75	0.5	0.5	50	1.0	221.58
LPB24S	36-72	24	75	87	0.5	0.5	0.5	0.5	50	0.5	221.58
LPB28S	36-72	28	75	87	0.5	0.5	0.5	0.5	50	0.5	221.58
LPB48S	36-72	48	75	85	0.5	0.5	0.5	0.5	50	0.5	221.58
LPB100S	36-72	100	75	85	0.5	0.5	0.5	0.5	100	0.5	305.32
10% Minimum load required at all times. * Using proper thermal management, maximum temp. of +85° C (case) ** Reading taken at nominal 48 VDC input											

Series LPB Dual * 75 Watts * Input 36-72 VDC											
Pico Part No.	Input Voltage Range (V DC)	Output Voltage Per Output (V DC)	Max. Output Power Per Output * (W)	EFF. Full Load Typical ** (%)	Max. Load Regulation (%)		Max. Line Regulation At Full Load (%)		Output Voltage Ripple (Full Load) 1-1MHz BW (MV P-P)	Output Voltage Tolerance ** (± %)	Price (US \$)
					10-50%	50-100%	36-48 V	48-72 V			
LPB5D	36-72	5	25	80	1.0	1.0	0.75	0.75	50	1.5	298.87
LPB9D	36-72	9	32.5	84	1.0	1.0	0.75	0.75	50	1.0	298.87
LPB12D	36-72	12	37.5	84	0.75	0.75	0.5	0.5	50	1.0	298.87
LPB15D	36-72	15	37.5	85	0.75	0.75	0.5	0.5	50	1.0	298.87
LPB24D	36-72	24	37.5	87	0.5	0.5	0.5	0.5	50	0.5	298.87
LPB28D	36-72	28	37.5	87	0.5	0.5	0.5	0.5	50	0.5	298.87
LPB48D	36-72	48	37.5	85	0.5	0.5	0.5	0.5	50	0.5	321.22
10% Minimum load required at all times. * Using proper thermal management, maximum temp. of +85° C (case) ** Reading taken at nominal 48 VDC input											

***HIGH VOLTAGE SERIES LPB

TO 250 VDC - 50 WATTS - INPUT 36-72 VDC

PICO PART NUMBER	INPUT VOLTAGE (VDC)	OUTPUT VOLTAGE DC	MAX. OUTPUT POWER (W)*	EFF. @ FULL LOAD TYPICAL (%)**	MAX. LOAD REGULATION (%)**		MAX. LINE REGULATION AT FULL LOAD (%)		OUTPUT VOLTAGE RIPPLE FULL LOAD 1-1 MHz BW (%)	OUTPUT VOLTAGE Tolerance ** (±%)	PRICE (US \$)
					20-50%	50-100%	36-48 V	48-72 V			
LPB125S	36-72	125	50	84	0.5	0.5	0.3	0.3	1	0.5	305.32
LPB150S	36-72	150	50	84	0.5	0.5	0.3	0.3	1	0.5	305.32
LPB175S	36-72	175	50	84	0.5	0.5	0.3	0.3	1	0.5	305.32
LPB200S	36-72	200	50	84	0.5	0.5	0.3	0.3	1	0.5	407.09
LPB225S	36-72	225	50	84	0.5	0.5	0.3	0.3	1	0.5	407.09
LPB250S	36-72	250	50	84	0.5	0.5	0.3	0.3	1	0.5	407.09
*Using proper thermal management maximum temp. of +85°C (case) 10% minimum load required at all times ** Readings taken at nominal 48 VDC input *** UL approval pending											

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For immediate engineering assistance or to place an order:
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