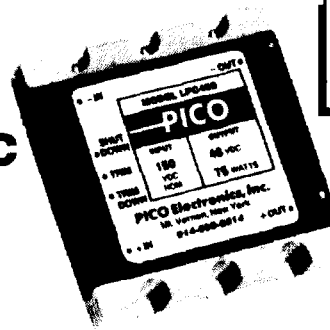


SERIES LPC

**Isolated Regulated 75 Watts
DC-DC Converters
Wide Input Range/100-180 VDC
Fully Regulated
Short Circuit Protected
*Parallel Operation**



**Dual Isolated Outputs
Special Voltage
Combinations Available**

Patented

The new PICO LPC Series of high power DC-DC Converters allow a wide input voltage of 100-180 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.

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

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 KHz

***Parallel Operation**
Add Suffix P
ie: LPC5SP

TYPICAL CHARACTERISTICS:

Frequency: 100 KHz

Base plate: Max. +85°C

Operating Temp.: See thermal chart,
Min. 0°C ambient, Max. +85°C base
plate temp.

Test conditions: 25° C ambient

Isolation Base Input: 1000 VDC

Isolation Input Output: 1000 VDC

Isolation Output to Base: 1000 VDC

Storage Temp.: -55°C to +105°C

For All Variations Call Factory

**17 Standard
Models**

**Fixed
Frequency**

**Hi Density
75 Watts**

**Application Notes
Page 124
Mechanical
Configuration
Pages 125-129**

**100 VDC
Output
Models**

For immediate engineering assistance or to place an order—

Call Toll Free 800-431-1064

PICO Electronics, Inc.

143 Sparks Avenue, Pelham, NY 10803-1889

914-699-5514 • FAX 914-699-5565

**Delivery—
stock to one week**

SERIES LPC SINGLE • 75 WATTS • INPUT 100-180 VDC

#PICO PART NUMBER	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
					10-50%	50-100%	100-150	150-180			
LPC3.3S	100-180	3.3	30	74	1.25	1.25	0.75	0.75	50	2	129.00
LPC5S	100-180	5	50	81	1.00	1.00	0.75	0.75	50	1.5	129.00
LPC5.2S	100-180	5.2	50	81	1.00	1.00	0.75	0.75	50	1.5	129.00
LPC9S	100-180	9	65	84	0.75	0.75	0.5	0.5	50	1	129.00
LPC12S	100-180	12	75	85	0.75	0.75	0.5	0.5	50	1	129.00
LPC15S	100-180	15	75	86	0.75	0.75	0.5	0.5	50	1	129.00
LPC24S	100-180	24	75	87	0.5	0.5	0.5	0.5	50	0.5	129.00
LPC28S	100-180	28	75	87	0.5	0.5	0.3	0.3	50	0.5	129.00
LPC48S	100-180	48	75	85	0.5	0.5	0.3	0.3	50	0.5	129.00
LPC100S	100-180	100	75	85	0.5	0.5	0.3	0.3	100	0.5	129.00

10% Minimum load required at all times

*Using proper thermal management, maximum temp. of +85°C (case)

**Reading taken at nominal 150 VDC input

SERIES LPC DUAL • 75 WATTS • INPUT 100-180 VDC

#PICO PART NUMBER	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
					10-50%	50-100%	100-150	150-180			
LPC5D	100-180	5	50	81	1	1	0.75	0.75	50	1.5	174.00
LPC9D	100-180	9	65	84	1	1	0.75	0.75	50	1	174.00
LPC12D	100-180	12	75	85	0.75	0.75	0.5	0.5	50	1	174.00
LPC15D	100-180	15	75	86	0.75	0.75	0.5	0.5	50	1	174.00
LPC24D	100-180	24	75	87	0.5	0.5	0.5	0.5	50	0.5	174.00
LPC28D	100-180	28	75	87	0.5	0.5	0.5	0.5	50	0.5	174.00
LPC48D	100-180	48	75	85	0.5	0.5	0.5	0.5	50	0.5	174.00

10% Minimum load required at all times

*Using proper thermal management maximum temp of +85°C (case)

**Reading taken at nominal 150 VDC input

Full thermal analysis can be determined using application notes or page 124.
By using the efficiency and thermal resistance of your desired unit to the
formula you can complete your evaluation.
The curves below were generated for Part #LPC12S using Application Notes
Please consult factory with any questions.

