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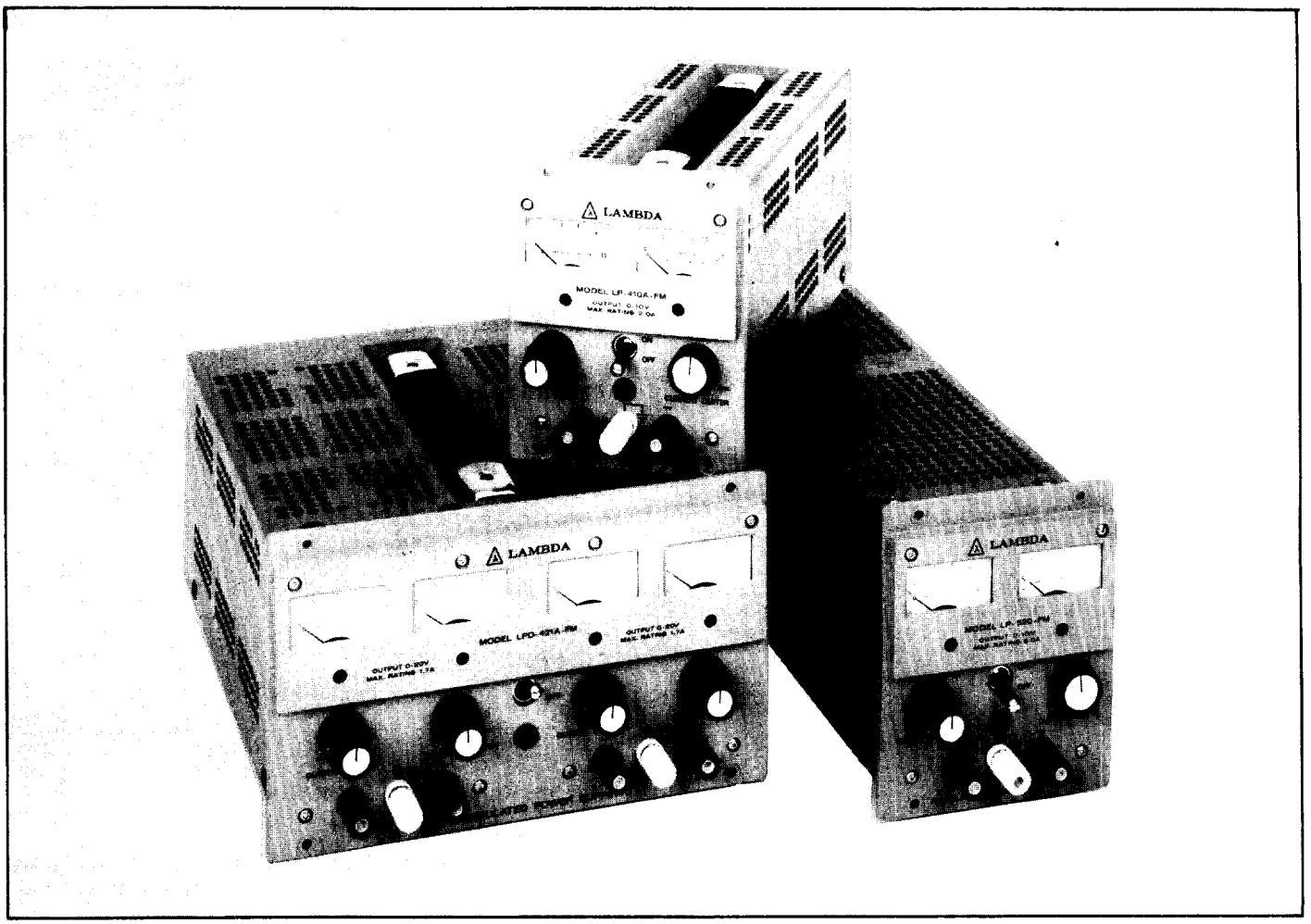
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Find the *TDK-Lambda LP-412A-FM* at our website: *Click HERE*

Lambda LP, LPD & LPT series



Features—LP, LPD & LPT

Designed for both bench and rack use.

Convection cooled no blowers, no external heat sinks

Series/parallel operation

Continuously variable

Remotely programmable

Remote sensing

Constant voltage/constant current

Designed to meet RFI per MIL-STD 826A

Completely protected. Short circuit proof; continuously adjustable automatic current limiting

No overshoot on turn-on, turn-off or power failure

Features of dual and triple output models :

6 models with independent DC outputs offer widest choice up to ±250 VDC, up to 5 Amps. Either output may be plus or minus, or both outputs may be plus or minus.

Series/parallel operation of outputs yields two times the voltage or two times the current—up to 500 Volts or up to 3.4 Amps.

Auto series/auto parallel (master-slave) permits tracking to a common reference

Separate meters provide simultaneous monitoring of both voltage and current.

Convection cooled, no blowers, no external heat sinks

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Voltage and current ratings

LP, LPD & LPT series

LPT SERIES TRIPLE OUTPUT MODEL

MODEL	REGULATION[3]	RIPPLE (RMS)	VOLTAGE RANGE (VDC)[2]	MAX. CURRENT, AMPS AT AMBIENT OF:[1] 30° C	40° C	50° C	60° C	DIMENSIONS	PRICE
LPT-7202-FM	0.01% + 1 mV	500 uV	0-7	5.0	4.5	4.0	3.5	5-3/16" x 12-1/2" x 11"	$902
			0-20	1.5	1.35	1.2	1.0		
			0-20	1.5	1.35	1.2	1.0		

LPD SERIES DUAL OUTPUT MODELS

MODEL	REGULATION[3]	RIPPLE (RMS)	VOLTAGE RANGE[2] PER OUTPUT/ OUTPUTS IN SERIES VDC	MAX. CURRENT, AMPS AT AMBIENT OF:[1] PER OUTPUT/ OUTPUTS IN PARALLEL 30° C	40° C	50° C	60° C	DIMENSIONS	PRICE
*LPD-421A-FM	0.01% + 1 mV	500 uV	0-±20/0-40	1.7/3.4	1.5/3.0	1.3/2.6	0.9/1.8	5-3/16" x 8-3/8" x 10-3/32"	$613
*LPD-422A-FM	0.01% + 1 mV	500 uV	0-±40/0-80	1.0/2.0	0.85/1.7	0.7/1.4	0.55/1.1	5-3/16" x 8-3/8" x 10-3/32"	613
*LPD-423A-FM	0.01% + 1 mV	500 uV	0-±60/0-120	0.7/1.4	0.6/1.2	0.5/1.0	0.4/0.8	5-3/16" x 8-3/8" x 10-3/32"	613
LPD-424A-FM	0.01% + 1 mV	500 uV	0-±120/0-240	0.38/0.76	0.32/0.64	0.26/0.52	0.20/0.40	5-3/16" x 8-3/8" x 10-3/32"	613
LPD-425A-FM	0.01% + 1 mV	1 mV	0-±250/0-500	0.13/0.26	0.12/0.24	0.11/0.22	0.10/0.20	5-3/16" x 8-3/8" x 10-3/32"	730

LP SERIES SINGLE OUTPUT MODELS

MODEL	REGULATION[3]	RIPPLE (RMS)	MAX. CURRENT, AMPS AT AMBIENT OF:[1] 30° C	40° C	50° C	60° C	DIMENSIONS	PRICE
0-10 VOLTS								
*LP-410A-FM	0.01% + 1 mV	500 uV	2.0	1.8	1.6	1.4	5-3/16" x 4-3/16" x 10"	$344
*LP-520-FM	0.01% + 1 mV	500 uV	5.0	4.7	4.3	3.7	5-3/16" x 4-3/16" x 15-1/2"	424
*LP-530-FM	0.01% + 1 mV	500 uV	10.0	9.0	8.0	7.0	5-3/16" x 8-3/8" x 15-5/8"	613
0-20 VOLTS								
*LP-411A-FM	0.01% + 1 mV	500 uV	1.2	1.1	1.0	0.8	5-3/16" x 4-13/16" x 10"	344
*LP-521-FM	0.01% + 1 mV	500 uV	3.3	3.0	2.6	2.3	5-3/16" x 4-13/16" x 15-1/2"	424
*LP-531-FM	0.01% + 1 mV	500 uV	5.7	5.3	4.7	4.0	5-3/16" x 8-3/8" x 15-5/8"	591
0-40 VOLTS								
*LP-412A-FM	0.01% + 1 mV	500 uV	1.0	0.90	0.80	0.60	5-3/16" x 4-3/16" x 10"	344
*LP-522-FM	0.01% + 1 mV	500 uV	1.8	1.6	1.4	1.2	5-3/16" x 4-3/16" x 15-1/2"	424
*LP-532-FM	0.01% + 1 mV	500 uV	3.0	2.9	2.7	2.3	5-3/16" x 8-3/8" x 15-5/8"	591
0-60 VOLTS								
*LP-413A-FM	0.01% + 1 mV	500 uV	0.45	0.41	0.37	0.33	5-3/16" x 4-3/16" x 10"	344
*LP-523-FM	0.01% + 1 mV	500 uV	0.9	0.8	0.7	0.6	5-3/16" x 4-3/16" x 15-1/2"	424
*LP-533-FM	0.01% + 1 mV	500 uV	2.4	2.2	2.1	1.8	5-3/16" x 8-3/8" x 15-5/8"	659
0-120 VOLTS								
LP-524-FM	0.01% + 1 mV	500 uV	0.5	0.45	0.4	0.35	5-3/16" x 4-3/16" x 15-1/2"	483
LP-534-FM	0.01% + 1 mV	500 uV	1.2	1.0	0.9	0.8	5-3/16" x 8-3/8" x 15-5/8"	730
0-250 VOLTS								
LP-415A-FM	0.01% + 1 mV	500 uV	80 mA	72 mA	65 mA	60 mA	5-3/16" x 4-3/16" x 10"	424

NOTES:
*Overvoltage protection available as an accessory. Each output requires separate OV accessory—add $35.00 for each output. See page 88.
[1] Current rating applies over entire voltage range. Ratings based on 57-63 Hz operation.
[2] LPD, LPT Series models require one LH-OV for each output.
[3] See next page for full specifications.

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Specifications—LP, LPD & LPT series

DC Output
Voltages ranges shown in tables.

Regulated Voltage
regulation
(line or load) .....0.01% + 1mV for line variations from 105-132 VAC or for load changes from no load to full load.
current range .....as shown in table
remote programming
resistance .....200 ohms/volt nominal
remote programming
voltage .....volt per volt.
ripple and noise .....500 μV RMS, 1.5 mV pk-pk (either plus or minus terminal grounded.) LPD-425-A-FM model only 1 mV RMS, 3 mV, pk-pk.
temperature
coefficient .....(0.015% + 0.3 mV/°C-LP, LPT models (0.015% + 0.5 mV)/°C-LPD models.

Constant Current
(current regulated line and load)

AUTOMATIC CROSSOVER
voltage range .....as shown in tables.
current range .....min: 45 mA or 1% whichever is greater (LP-530-FM—LP-543-FM, LPT models only) all other LP models and LPD models 5 mA or 1% whichever is greater.
max: as shown in tables.
regulation
(line or load) .....less than 0.2% or 5 mA whichever is greater.

AC Input
105-132 VAC; 47-440 Hz. Ratings based on 57-63 Hz.
187-242 VAC; 205-265 VAC. See "AC Input Option."

Ambient Operating Temperature Range
Continuous duty from 0° to +60°C.

Storage Temperature Range
−55°C to +85°C.

Overload Protection

THERMAL
Thermostat, automatic reset.

ELECTRICAL
external overload
protection .....adjustable, automatic electronic current limiting, settable to 105% of rated current.
internal failure
protection .....provided by fuse.

Input and output connections
Covered terminal block on rear of chassis; five-way binding posts on front panel. On LPD, LPT Models one set of five-way posts is provided for each output.

Meters
Voltmeter and ammeter. For LPD, LPT Models, each output has a separate voltmeter and ammeter.

Controls

DC OUTPUT CONTROLS
Coarse and fine voltage and coarse and fine current adjust provided on front panel of all LPD, LPT models for each output. On all other LP models coarse and fine voltage adjust and single current adjust controls are provided.

Power
On-off switch, front panel.

Remote sensing
Provision is made for remote sensing to eliminate effect of power output lead resistance on DC regulation.

Physical Data

Series	Weight Lbs. Net	Weight Lbs. Ship	Size Inches
LP410A	7	10	5-3/16 x 4-3/16 x 10
LP520	14	18	5-3/16 x 4-3/16 x 15-1/2
LP530	25	30	5-3/16 x 8-3/8 x 15-5/8
LPD	13	16	5-3/16 x 8-3/8 x 10-3/32
LPT	24	29	5-3/16 x 12-1/2 x 11

Panel finish

Tan glass-filled, flame-retardant nylon panels.

Accessories
Rack adapters, overvoltage protectors, pot covers, blank panels.
See page 88.

Options

AC Input

Add Suffix	For Operation at:	Price Qty. 1-14	Price Single Model Qty. 15 & up	Price Mixed Model Qty. 15 & up
—V	187-242 VAC 47-440 Hz	12% or $30*	10%	12% or $30*
—V1	205-265 VAC 47-440 Hz	12% or $30*	10%	12% or $30*

*Whichever is greater.
For 50 Hz operation derate current 10% on all models.

Fungus proofing
Add suffix "—R" to model number and add 10% or $25.00 to the price (whichever is greater).

Guaranteed for 5 years
5-year guarantee includes labor as well as parts. Guarantee applies, to operation at full published specifications at end of 5 years.

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