

# LABPAC

## Linear Power Supplies

B - series



**OLTRONIX**

Industrial Power Supplies b.v.

## Single output design

The following types are available in the single output design:



### B200DPM - B800T - B801D

All units are linear, single output designs with DPM, Power Boost and LED indication of operating mode. B200DPM and B801D have remote sense and an optional analog programming feature.

The B200DPM has two ranges which are switched automatically, 0-60V /0.8A and 0-25V /2A, the latter with a fold back current limit. The 60V /2A is available in Power Boost.

The B800T has two manually selectable ranges of 0-15V /2A and 0-35V /1,1A with fold back current limit. The 35V /2A is available in Power Boost.

The B801D has a straight current limit from 0-30V up to 3A and 5A in Power Boost. Automatic range switching takes place around 12-15V. Voltage adjustment incorporates our well-known Digital Setting.

### B605DPM - B606DPM - B700D

The B600 series laboratory Power supplies are a well regulated, linear voltage units with a maximum of 700 VDC output and have a panel meter for current and voltage read out. The units are useful in simulating line input to switching power supplies or high voltage DC/DC converters, for example in chemical laboratories, or for electrophoresis. The units are executed with a digital setting. This allows selection of the output voltage before switch-on. The constant current mode has excellent current regulation.

The B700 series delivers a single voltage of 0-75VDC at 1.5 A, has the power boost feature and can deliver high current at low voltages. The electronic stepwise pre-regulator permits a larger current at lower voltages. Power-Boost increases these currents by 40-60% for a certain period of time. It could be a few minutes or several hours. The steps are indicated by green LED's on the panel. The unit is equipped with a double 4-digit digital display, that allows simultaneous read-out of the values of the actual voltage and current, constant voltage-/ constant current-mode, Power-Boost on/off.

Specifications :	B200DPM	B800T	B801D	B605DPM	B606DPM	B700DPM
Input	230V (+6%/-10%); 48-63Hz			230V (+6%/-10%); 48-63Hz; 1A		230V +/-10%
Output	0-25V / 2A 0-60V / 0,8A	35V /1,1A 15V /2A	30V /3A			0-5,5V / 5A (7A) 5,5-28V / 2,5A (3A) 28-56V / 1,7A (2,4A) 56-85V / 1,5A (2,1A) Max output voltage 99V
Max output voltage				500V	0-700V	
Nominal voltage range				0-400V / 200mA / 300mA power boost	0-650V / 100mA / 150mA power boost	
Ripple	3mV	2mV	2mV	<5mV	<5mV	<2mV
Line regulation	1mV	1mV	1mV	<20mV	<20mV	<5mV / 5mA
Load regulation	2mV	2mV	2mV	<10mV	<10mV	<2mV / 5mA
Drift stability ( 8 hours )	< 0,05%	< 0,05%	< 0,05%	< 0,05%	< 0,05%	< 0,05%
Display	2x digital	1x digital	2x digital	digital	digital	digital
Ambient operating temp.	0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 5 °C	0 - 50 °C	0 - 40 °C
Insulation Case - Input	3200V	3200V	3200V	3200V	3600V	3200V
Input - Output	5600V	5600V	5600V	5600V	5600V	5600V
Output - Case	500V	500V	500V	500V	500V	500V
Dimensions HxWxD [mm]	176 x 88 x 255	111 x 104 x 172	176 x 88 x 305	176x176x255	176x176x255	170x177x290

# Double and triple output design

The following types are available in the dual and triple output design:



## B203T - B303T

The B203T and the B303T units are three output, mixed linear-/ secondary switcher designs. The units does have a digital setting, good regulation, plenty of power and an excellent price-/ performance ratio.

V1, adjustable from 3 to 5,5V, is a linear regulator and supplies up to 3 amp. V2 and V3 (switchers) have a "Fold-Forward" current limit.

This series has an adjustable, straight current limits, operating within the "Fold- Forward" limit. On the B203T, V2 and V3 are permanently connected together, on the B303T they can be connected to a digital tracking mode. V3 is the master and V2 the slave. With digital tracking the setting of the slave is used to show the ratio between both of them. V3 can be programmed, both V and A with 0-10 V (analog).

## B703DPM- B802DT(dual)

These units contain two or three separated outputs, operating completely independent from each other. Two outputs can be combined into a tracking pair. The output voltage is digitally indicated on the front cover of the unit and shows the expected voltage at switch on.

Switching between normal and tracking is done by a tampering resistant switch.

### Features:

- Tampering resistant switch for tracking/no tracking
- Digital setting
- Adjustable OVP
- Galvanically separated output

Specifications :	B 203T	B 303T	B703DPM	B802DT
Input		230 VAC + 6% / - 10%; 48-63Hz; 0,65A	230V +/-10%; 48-63Hz; 1A	230V +6%/-10%; 48-63Hz; 2,5A
Output 1 2 3	1 2 3	3 to 5,5 VDC / 3A 0 - 30 VDC / 3A down to 1A (Fold-Forward) 0 - 30 VDC / 3A down to 1A (Fold-Forward)	0-65V / 0,6A or 0-30V / 1,2A 0-30V 1A	0-30V / 3A (5A) 0-30V / 3A (5A)
Ripple	1 2 + 3	< 5 mVpp < 10 mVpp	0-3,3V/10A or 0-5,5V/7A < 3 mVpp / 5mA	2mV / 3mA
Line / Load regulation	1 2 3	0,2 / 1,5 % 0,05 / 0,5 % 0,05 / 0,5 %		
Line Regulation			< 2 mV / < 2 mA	1mV / 2mA
Load Regulation			< 5 mV / < 3 mA	2mV / 3mA
Drift stability ( 8 hours )		< 0,05 %	< 0,05%	0,05%
Display		LED Panelmeter switchable Volt / Current	Digital (DPM)	Digital
Ambient operating temperature		0 - 40 °C	0 - 40 °C	0 - 40 °C
Insulation	Case - Input	2100 VDC	3200 V	3600 V
	Input - Output	5600 VDC	5600 V	5600 V
	Output - Case	500 VDC	500 V	500 V
Efficiency		appr. 75 % (Output 2 + 3) totally appr. 65 %		
Dimensions ( H x W x D )		132 x 176 x 190 mm	176 x 176 x 255 mm	176 x 176 x 275 mm



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Euroweg 15

NL-9351 EM LEEK

the Netherlands

Tel.: +31 (0)594 512 700

Fax: +31 (0)594 518 864

[info@oltronix.nl](mailto:info@oltronix.nl)

[www.oltronix.nl](http://www.oltronix.nl)