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# LAB-EC

# Low Cost DC Power Supply

## Description



- Constant Current & Constant Voltage Modes
- Stabilised and Short Circuit Proof
- The Economical Alternative
- Low Ripple Linear Topology
- Compact Design

## Selection Table

Part Number	Power	Output/Source	Current	Dimensions (Width x Height x Depth)	
LAB-EC 303	90W	0 - 30 VDC	0 - 3 A	135 x 160 x 275mm	
LAB-EC 305	150W	0 - 30 VDC	0 - 5 A	135 x 160 x 275mm	
LAB-EC 505	250W	0 - 50 VDC	0 - 5 A	135 x 310 x 265mm	
LAB-EC 3010	300W	0 - 30 VDC	0 - 10 A	310 x 135 x 265mm	
LAB-EC 3020	600W	0 - 30 VDC	0 - 20 A	310 x 135 x 290mm	
	Power	Output 1	Output 2	Output 3	
LAB-EC 2303	195W	0 - 30 VDC/ 3 A	0 - 30 VDC/ 3 A	5 VDC/ 3 A	360 x 165 x 265mm
LAB-EC 2305	365W	0 - 35 VDC/ 5 A	0 - 30 VDC/ 5 A	5 VDC/ 3 A	360 x 165 x 265mm

## Technical Data

Input voltage, switchable.....	115/230 VAC ±10%
LED display voltage.....	3½-digit ±1% + 2 digit
LED display current.....	3½-digit ±2% + 2 digit
Source regulation (CV mode).....	1 x 10 <sup>-4</sup> + 500 µV
Source regulation (CC mode).....	5 x 10 <sup>-3</sup> + 1 mA
Load regulation (CV mode).....	<1 x 10 <sup>-4</sup> + 2 mV
Load regulation (CC mode).....	<5 x 10 <sup>-3</sup> + 3 mA
Ripple (CV mode).....	<1 mVrms
Ripple (CC mode).....	<5 mArms
Operating temperature.....	0-50 °C
Operating humidity.....	0-90% (non condensing)
Power derating 50-70 °C.....	-2%/ °C
Storage temperature.....	45 to + 85 °C
Storage humidity.....	0-95% (non condensing)
Vibration.....	10-55Hz / 1min/2G XYZ
Shock.....	Less than 20 G

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ET must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. ET specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. Please note that your actual unit may differ from those shown.