

LAB-SMP

2.4kW DC SOURCE WITH SD CARD



POSITIVE PROBLEM SOLVING **+ =**

The LAB-SMP series of laboratory DC Sources provides a power output up to 2.4kW. Constant voltage, power, resistance and current operating modes are standard.

The LAB-SMP also allows the voltage and current outputs to be preset and read before applying them to the load. To enable remote control a number of optional analogue and/or computer interfaces can be specified. An SD card slot can further provide a convenient method of recording and implementing complex waveforms.

- + Analogue and Computer Interfaces**
- + CV, CC, CP & CR Operating Modes**
- + Both Current and Voltage Presets**
- + User Programmable Waveforms**
- + Extremely Compact 1U Design**
- + Up to 94% Efficiency**

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FURTHER DETAILS

The PSUs is used in a wide variety of fields from automotive applications and general lab work to battery charging and automatic test systems. The PV mode allows for basic simulation of a solar cell array via adjustable I and V values.

A soft interlock circuit allows users to connect the unit to an external safety device such as an emergency stop. This feature requires a high signal (+10V) to be present between two pins, otherwise the output will be shutdown.

SELECTION TABLE

Part Number	Max Power	Output Voltage	Output Current	Weight	Dimensions (W x H x D)
LAB-SMP 2150	2.4kW	0 - 150V	0 - 16A	7.6kg	19" x 1U x 440mm

TECHNICAL DATA

GENERAL	
Input Frequency Range	230VAC \pm 10% /PFC
Input Frequency	47 - 63Hz
Static Voltage Regulation	\pm 0.05% + 2mV
Static Current Regulation	\pm 0.1% + 2mA
Dynamic Load Regulation	<2ms (typically)
Over Voltage Protection	0 to 120% V_{MAX}
Ripple	<0.2% (typical)
Stability	\pm 0.05%
Programming Accuracy (V_{OUT})	\pm 0.05% + 2mV
Measurement Accuracy	\pm 0.5% of V_{MAX} / I_{MAX} (front panel, digital & analogue interfaces)
Isolation [Between Input and Earth]	2100VDC
Isolation [Between Output and Earth]	3kVDC
Isolation [Between Input and Output]	4250VDC
Isolation [Between Front Panel Control and Output]	3kVDC
Resistance [Between Output and Earth]	400M Ω
Protection	OC / OV / OT / OP
Line Regulation	< \pm 0.1% + 2mV
Static Load Regulation	< \pm 0.1% + 2mV
Safety Standard	EN 60950
Emission	EN 61000-6-4:2007
Immunity	EN 61000-6-2:2005
Measurement, Control and Lab Equipment	EN61010-1:2006
Cooling	Fans
Operating Temperature	0 to 50°C
Storage Temperature	-20 to 70°C
Humidity	<80%
Operating Height	<2000m
Vibration	10 - 55Hz / 1min / 2G XYZ
Shock	Less than 20G
Output, Control & Monitoring (Standard)	Front panel, isolated analogue 0 to +5V / +10V, RS-232 and SD card

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ETPS Ltd 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. ETPS Ltd 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.



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