



REVISIONS

DOC. NO. SPC-F004 * Effective: 7/8/02 * DCP No: 1398

DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1190	A	RELEASED	JWM	12/18/03	HO	2/19/03	JC	8/24/04



Features:

- Single Output, 0~30VDC, 0~1A, 30W
- Linear Regulation
- Simultaneous Digital Metering, both voltage and current
- Constant Voltage or Constant Current Operation

SPC-F004.DWG

TOLERANCES: UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.	DRAWN BY:	DATE:	DRAWING TITLE:			
	Jeff McVicker	12/18/03	Bench Power Supply, DC, Single Output			
	CHECKED BY:	DATE:	SIZE	DWG. NO.	ELECTRONIC FILE	REV
	Hisham Odish	2/19/03	A	72-6906	01H9894.dwg	A
APPROVED BY:	DATE:	SCALE:		U.O.M.:		SHEET:
John Cole	8/24/04	NTS		Millimeters		1 OF 2

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Specifications

MAIN OUTPUTS

- Voltage Range: 0V to 30V minimum
- Current Range: 0A to 1A minimum
- Operating Mode: Constant voltage or constant current with automatic cross-over and indication.
- Voltage Setting: By coarse and fine controls.
- Current Setting: By single logarithmic control.
- Load regulation: <0.01% of max. O/P for a 90% load change.
- Line regulation: <0.01% of max. O/P for a 10% line voltage change.
- Output impedance: Typically <5mΩ in constant voltage mode.
Typically >50kΩ in constant current mode.
- Ripple & Noise (20MHz bandwidth): Typically <1mV rms, (CV mode).
- Transient Response: <20μs to within 50mV of set level for 90% load change.
- Temp. Coefficient: Typically <100ppm/°C.
- Output Protection: Outputs will withstand forward voltages of up to 20V above the rated output voltage. Reverse protection by diode clamp for currents up to 3A.
- Status Indication: Output ON lamps. Constant current mode lamps.
- Output Switch: Electronic. Preset voltage and current displayed when output is off.
- Output Terminals: 4mm terminals on 19mm (0.75") pitch.

METERS (main outputs)

- Meter Types: Separate 3 digit meters for voltage and current with 14mm (0.56") LED displays. Reading rate 4/sec.
- Meter Resolutions: 100mV, 10mA.
- Meter Accuracies: Voltage 0.3% ±1 digit. Current 0.6% ±1 digit.

OUTPUT TERMINALS

- Standard Type: 4mm "binding post" terminals suitable for plugs or wires.

INPUT POWER

- AC Input: 230V or 115V ±10%, 50/60Hz. Adjustable internally. Installation Category II.
- VA Rating: 85 VA

TEMPERATURE & ENVIRONMENTAL

- Operating Range: +5°C to +40°C, 20% to 80% RH.
- Storage Range: -40°C to + 70°C.
- Environmental: Indoor use at altitudes to 2000m, Pollution Degree 2.
- Cooling: Silent fan-less convection cooling.
- Safety: Complies with EN61010-1.
- EMC: Complies with EN61326.

MECHANICAL

- Size: 140x160x295 mm
- Weight: 3.4kg

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	A	72-6906	01H9894.dwg	A
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