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REVISIONS			DOC. NO. SPC-F004 * Effective: 12/21/98 * DCP No: 680					
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1190	A	Released	JWM	1/30/02	HO	2/13/02	DJC	2/13/02

### OUTPUT SPECIFICATIONS

Operating modes: Constant voltage or constant current with automatic crossover.

Voltage range: 0V to 18V

Current range: 0A to 20A

Overvoltage protection: 10% to 110% of max. Output voltage.

Setting resolution: 10mV, 10mA.

Load regulation: <0.01% of max. O/P for 90% change.

Line regulation: <0.01% of max. O/P for 10% change.

Output impedance: <1milliohm in constant voltage mode.

>5kilo-ohm in constant current mode.

Ripple & noise: <1mV RMS typical in constant voltage.

<3mA RMS typical in constant current

HF common mode noise: Typically <3mV RMS, <10mV pk.

Transient load response: <20us to within 50mV of set level for 90% load change.

Temperature coefficient: typically <100ppm/°C.

Overvoltage protection delay: <200us.

Protection functions: Overvoltage trip, Regulator overtemperature

Sense miswiring.

Status indication: Output on/off lamp, Constant voltage mode lamp

Constant current mode lamp, Trip message.

Output switch: Electronic.

Output terminals: 4mm output terminals at front, screw terminals for

output and sense at rear.

Output protection: Full forward and reverse protection via OVP and diode damp.



### INPUT SPECIFICATIONS

Input voltage range: 180V to 270V RMS, 90V to 135V RMS, 47 to 63Hz -

Power requirement: 750VA max.

Voltage range selection: Rear panel slide switch.

### METER SPECIFICATIONS

Meter types: Separate 4 digit meters for voltage and current with 12.5mm (0.5") LED displays.

Meter resolutions: 10mV, 10mA.

Meter accuracies: Voltage:  $\pm(0.2\% + 1 \text{ digit})$

Current:  $\pm(0.5\% + 1 \text{ digit})$ .

### MECHANICAL & ENVIRONMENTAL

Electrical safety: Complies with EN61010-1.

EMC: Complies with EN50081-1 and EN50082-1.

Temperature: +5°C to +40°C operating, 20% to 80% RH, -40°C to +70°C storage.

Size: 210 x 130 x 350mm (WxHxD)

Weight: 5.0kg

### FRONT PANEL CONTROLS

Voltage setting: Via single rotary controls for coarse and fine control.

Current setting: Via single tum semi-logarithmic rotary control.

Overvoltage setting: Via screwdriver adjustable preset potentiometer

Output On/Off Via large paddle lever switch.

SPC-F004.DWG

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**TENMA**<sup>®</sup>

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.	DRAWN BY:	DATE:	DRAWING TITLE:			
	Jeff McVicker	1/30/02	High Current Laboratory Power Supply			
	CHECKED BY:	DATE:	SIZE	DWG. NO.	ELECTRONIC FILE	REV
	Hisham Odish	2/13/02	A	72-6852	19C7705.dwg	A
APPROVED BY:	DATE:	SCALE: NTS		U.O.M.: INCHES [mm]		SHEET: 1 OF 1
Daniel Carey	2/13/02					