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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	Α	RELEASED	JWM	6/17/02	НО	6/17/02	DJC	6/18/02
1589	В	Specs added	JWM	9/11/03	JC	9/11/03	JC	9/11/03



The heart of the 72-6850 power supply is an innovative regulator design which combines switch mode pre-regulation with linear post-regulation. The pre-regulator uses specially developed techniques to dramatically reduce the capacitance between input and output thus eliminating the high levels of common-mode noise normally associated with switch mode PSUs.

The linear post-regulator combines very low levels of output noise with excellent load regulation and transient response. The result is performance comparable with a pure linear design.

SPC-F004.DWG

DISCLAIMER
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BEYOND OUR CONTROL, THE USER SHALL DETERMINE THE SUTTABILITY OF THE PRODUCT FOR THE
INTENDED USE AND ASSUME ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH. DATE: DRAWING TITLE: DRAWN BY: UNLESS OTHERWISE Laboratory Power Supply, Single Output, 35V @ 10A 6/17/02 SPECIFIED, Jeff McVicker DIMENSIONS ARE CHECKED BY: DATE: DWG. NO. ELECTRONIC FILE REV FOR REFERENCE 19C7696.dwg Hisham Odish 6/17/02 72 - 6850В PURPOSES ONLY. Α DATE: APPROVED BY: SCALE: NTS U.O.M.: Millimeters SHEET: 1 OF 2 Daniel Carey 6/18/02

Specifications

Output Specifications:

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

Voltage range: 0V to 35V Current range: 0A to 10A

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.
>5k 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: <20µs to within 50mV of set level for 90% load change.

Temperature coefficient: Typically <100ppm/°C.

Overvoltage protection delay: <200 µs.

Protection functions: Overvoltage trip, Regulator over temperature, 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 clamp.

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) (half rack width x 3U height)

Weight: 5.0kg

Front Panel Controls

Voltage setting:

Current setting:

Via single rotary controls for coarse and fine control.

Via single turn semi-logarithmic rotary control.

Via screwdriver adjustable preset potentiometer.

Output On/Off: Via large paddle lever switch.

SIZE	DWG. NO.			ELEC	REV	
A	72-6850		19C7696.dwg			В
SCALE: NTS		II O M · Millimeters		SHFFT.	2 OF	- 2