



REVISIONS

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

DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1453	A	RELEASED	JWM	8/27/03	JC	8/28/03	DJC	8/28/03



**FEATURES:**

- Quad Independent DC Output
- Four LED Display with 3 digits, selectable for two sets output voltage and current display simultaneously
- Auto Series, Parallel and Tracking Operation
- Constant Voltage and Constant Current Operation
- Low Ripple and Noise
- Overload and Reverse Polarity Protection
- Selectable for Continuous/Dynamic Load
- Output Enable/Disable Control
- Rotation speed of the fan is controlled by heatsink temperature



SPC-F004.DWG

TOLERANCES: UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.	DRAWN BY:	DATE:	DRAWING TITLE:			
	Jeff McVicker	8/27/03	Dual Output, Digital Power Supply			
	CHECKED BY:	DATE:	SIZE	DWG. NO.	ELECTRONIC FILE	REV
	John Cole	8/28/03	A	72-7245	22H6396.dwg	A
APPROVED BY:	DATE:	SCALE:	U.O.M.:	SHEET:		
Daniel Carey	8/28/03	NTS	Millimeters	1 OF 2		

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## **SPECIFICATIONS**

### **Output (CH1, CH2)**

Voltage: 0 ~ 30V

Current: 0 ~ 3A

Tracking Series Voltage: 0 ~ 60V

Tracking Parallel Current: 0 ~ 6A

### **CONSTANT VOLTAGE OPERATION (CH1, CH2)**

Line Regulation:  $\leq 0.01\% + 3\text{mV}$

Load Regulation:  $\leq 0.01\% + 3\text{mV}$  (rating current  $\leq 3\text{A}$ )

$\leq 0.02\% + 5\text{mV}$  (rating current  $> 3\text{A}$ )

Ripple & Noise:  $\leq 1\text{mVrms}$  5Hz ~ 1MHz

Recovery Time:  $\leq 100\mu\text{S}$  (50% Load change, Minimum load 0.5A)

### **CONSTANT CURRENT OPERATION (CH1, CH2)**

Line Regulation:  $\leq 0.2\% + 3\text{mA}$

Load Regulation:  $\leq 0.2\% + 3\text{mA}$

Ripple & Noise:  $\leq 3\text{mArms}$

### **TRACKING OPERATION (CH1, CH2)**

Tracking Error:  $\leq 0.5\% + 10\text{mV}$  of the Master

Series Regulation:  $\leq 300\text{mV}$

Load Regulation:  $\leq 0.01\% + 3\text{mV}$

Ripple & Noise:  $\leq 2\text{mVrms}$  5Hz ~ 1MHz

### **METER**

3 digits 0.5" LED display

Accuracy:  $\pm(0.5\% \text{ rdg} + 2 \text{ digits})$

### **INSULATION**

Chassis and Terminal:  $\geq \text{DC } 500\text{V} / 20\text{Megohms}$

Chassis and AC Cord:  $\geq \text{DC } 500\text{V} / 30\text{Megohms}$

### **POWER SOURCE**

AC 100V/120V/220V  $\pm 10\%$ , 230V  $\pm 10\% \sim -6\%$ , 50/60Hz

### **Dimensions & Weight:**

255mm(W) x 145mm(H) x 265mm(D), Approx. 7kg

### **ACCESSORIES**

Instruction manual, Power cord, and Test lead