



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
- Output Voltage and Current Setting When Output Disabled (Except 72-7245)



SPC-F004.DWG

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|--|---------------|------------|-----------------------------------|---------------------|-----------------|---------------|
| 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: NTS | | U.O.M.: Millimeters | | SHEET: 1 OF 2 |
| Daniel Carey | 8/28/03 | | | | | |

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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