



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	7/14/03	HO	7/23/03	DJC	7/31/03



Features:

- Variable 0 ~ 35V, 0 ~ 5A, 175W
- Mixed-Mode Regulation - combines switch-mode pre-regulation with linear post-regulation
- Constant Voltage or Constant Current: main outputs can operate in constant voltage or constant current mode with automatic crossover and mode indication
- Simultaneous Digital Metering: separate digital voltage and current meters

SPC-F004.DWG

TOLERANCES: UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.	DRAWN BY:	DATE:	DRAWING TITLE:			
	Jeff McVicker	7/14/03	Single Output, DC Power Supply			
	CHECKED BY:	DATE:	SIZE	DWG. NO.	ELECTRONIC FILE	REV
	Hisham Odish	7/23/03	A	72-6908	01H9896.dwg	A
	APPROVED BY:	DATE:	SCALE:	U.O.M.:	SHEET:	
	Daniel Carey	7/31/03	NTS	Millimeters	1 OF 2	

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SPECIFICATIONS .

MAIN OUTPUTS

- Operating Mode
Constant voltage or constant current with automatic cross-over and indication.
- Voltage Setting
0V to >35V by coarse and fine controls.
- Current Setting
0A to >5A by single logarithmic control.
- Load regulation
<.0035V for a 90% load change.
- Line regulation
<.0035V 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 <2mV rms (CV mode).
- Transient Response
<200μs to within 50mV of set level for 90% load change.
- Temp. Coefficient
Typically <100ppm/°C.
- Output Protection
Outputs will withstand forward voltages above the rated output voltage.
Reverse protection by diode clamp for currents up to 3A.
- Status Indication
Output ON lamps. Constant current 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 & 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.

POWER

- AC Input
115V - Installation Category II.

SIZE AND WEIGHT

- Size
140 x 160 x 320mm (single); 260 x 160 x 320mm (dual/triple)
- Weight
3.0 to 4.4kg.

ENVIRONMENTAL

- Operating Range
+50°C to +40°C, 20% to 80% RH.
- Storage Range
-40°C to + 70°C
- Environmental
Indoor use at <2000m, Pollution Degree 1.
- Safety
Complies with EN61010-1.
- EMC
Complies with EN61326.

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