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SPC-F005.DWG

REVISIONS

DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398

DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
430	A	RELEASED	JWM	2/11/03	HO	2/11/03	DJC	2/11/03

MAIN OUTPUTS

Voltage Range: 0V to 35V

Current Range: 0A to 4A

Output Voltage Setting: By coarse and fine controls

Output Current Setting: By single logarithmic control

Operating Mode: Constant voltage or constant current
with automatic cross-over and indication

Output Switch: Electronic. Preset voltage and current displayed when off

Output Terminals: 4mm terminals on 19mm (0.75") pitch

Output Impedance: Typically $<5m\Omega$ in constant voltage mode.

Typically $>50k\Omega$ in constant current mode

Output Protection: Outputs will withstand forward voltages of up to 40V. Reverse protection by diode clamp for currents up to 3A

Load Regulation: $<0.01\%$ of max. O/P for a 90% load change

Line Regulation: $<0.01\%$ of max. O/P for a 10% line voltage change

Ripple & Noise

(20MHz bandwidth): Typically $<2mV$ rms, $<10mV$ pk-pk, (CV mode)

Transient Response: $<200\mu s$ to within 50mV of set level for 90% load change

Temp. Coefficient: Typically $<100ppm/^{\circ}C$

Status Indication: Output on lamps. Constant current mode lamp

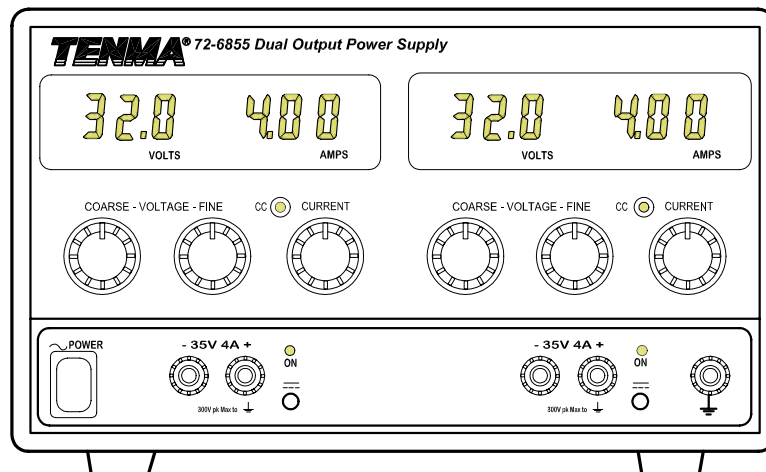
METERS (Main Outputs)

Meter Types: Dual 3 digit meters with 14mm (.56") LED displays. Reading rate 4Hz

Meter Resolution: 100mV, 10mA

Meter Accuracies: Voltage: 0.3% of reading ± 1 digit

Current: 0.6% of reading ± 1 digit



GENERAL SPECIFICATIONS

AC Input: 115 VAC $\pm 14\%$, 50/60 Hz. Installation Category II

Power Consumption: 600 VA max.

Operating Temp. & Humidity: $5^{\circ}C$ to $40^{\circ}C$, 20% to 80% RH

Storage Range: $-40^{\circ}C$ to $70^{\circ}C$

Environmental: Indoor use at altitudes to 2000m, Pollution Degree 2

Safety: Complies with IEC1010-1

EMC: Complies with EN50081-1 and EN50082-1

Size: 260mm (W) x 160mm (H) x 320mm (D)

Weight: 4.3 kg.

DISCLAIMER:
ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WE BELIEVE TO BE ACCURATE AND RELIABLE. SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE INTENDED USE AND ASSUME ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH.

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

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2/11/03

CHECKED BY:

Hisham Odish

DATE:

2/11/03

APPROVED BY:

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DATE:

2/11/03

DRAWING TITLE:

Dual Output Power Supply with NIST Calibration Certification

SIZE

A

DWG. NO.

72-6855C

ELECTRONIC FILE

36C3006.dwg

REV

A

SCALE:

NTS

U.O.M.: Millimeters

SHEET: 1 OF 1