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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
1754	A	Released	JWM	9/19/05	JN	2/18/08	JN	2/18/08

Features

- True RMS Meter
- Wide Range Variable Output Voltage/Frequency
- 4 Sets of "Save/Recall" Voltage/Frequency Memory
- Stable and Low Distortion Output Waveforms
- Software Calibration to Ensure Accuracy
- Panel Lock Function to Prevent Accidental Wrong

Operation

- Over Current Protection and Over Temperature Protection
- Frequency, Volts, Amps, Watts, and Power Factor Display

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.

DRAWN BY:	DATE:
Jeff McVicker	9/19/05
CHECKED BY:	DATE:
Jason Nash	2/18/08
APPROVED BY:	DATE:
Jason Nash	2/18/08

DRAWING TITLE: <b>AC Power Source</b>			
SIZE	DWG. NO.	ELECTRONIC FILE	REV
<b>A</b>	<b>72-7675</b>	<b>96H1234.dwg</b>	<b>A</b>
SCALE: NTS	U.O.M.: Millimeters	SHEET: 1 OF 2	

Specification	Description
Output Frequency (45.0~500Hz)	Digital setting via keys, Resolution: 0.1 Hz Accuracy: $\pm 0.1$ Hz
Output Voltage (AC0.0 ~ 300.0V)	Digital setting via keys, Resolution: 0.1 Vrms Accuracy: $\pm 0.1\% \text{rdg} + 1 \text{digit}$
Output Capacity	Low voltage range: 0.0 ~ 150 VAC High voltage range: 0.0 ~ 300 VAC
Output Power	500 VA
Maximum Current	4.2 A (0~150 V), 2.1 A (0~300 V)
Line Voltage Regulation	$\pm 0.1\%$
Load Regulation	$\pm(0.5\%+0.1V)$
Protection	Key Lock, OCP, Short Circuit Protect, OTP
Frequency Stability	100PPM
Wave Distortion	0.5%THD.(Resistance Load)
<b>Digital Display:</b>	
Frequency Counter	Measuring Range: .0~999 Hz      Resolution: 0.1 Hz      Accuracy: $\pm 0.1$ Hz
RMS Voltmeter	Measuring Range: 0.0 ~ 380 VAC      Resolution: 0.1 Vrms      Accuracy: $\pm 1\% \text{Rdg} + 1 \text{Digit}$
RMS Ammeter	Measuring Range: 0.000~2.000 A      Resolution: 1.0 mA      Accuracy: $\pm 1\% \text{Rdg} + 5 \text{Digits}$
	Measuring Range: 1.80~35.00 A      Resolution: 0.01 mA      Accuracy: $\pm 1\% \text{Rdg} + 2 \text{Digits}$
Wattage Meter	Measuring Range: 0.0~360 W      Resolution: 0.1 W      Accuracy: $\pm 1.5\% \text{Rdg} + 0.5 \text{W}$
	Measuring Range: 320.0~3500.0 W      Resolution: 1.0 W      Accuracy: $\pm 1.5\% \text{Rdg} + 1\text{W}$
Power Factor Meter	Measuring Range: 0.000 ~ 1.000      Resolution: 0.001      Accuracy: $\pm 2\% \text{rdg} + 2 \text{Digits}$
Power Source	115/230 VAC $\pm 15\%$ , 47-63 Hz, Single phase
Calibration	Front Panel Software Calibration
AC Power consumption	Maximum: 2.1 KW
Operation Environment (Indoor Use Only)	Rated Temperature: +10 °C ~+35 °C
	Operating Temperature: +0 °C ~+40 °C
	Storing Temperature: -10 °C ~+70 °C
	Relative Humidity: <80%
Dimensions	137 mm(H) x 430 mm(W) x 500 mm(D)
Weight	Approximate 25 kg



**Warning** To avoid electrical shock the power cord protective Grounding conductor must be connected to ground.