

# MODEL SSI-40DC:

## SINGLE CHANNEL CURRENT-CONTROLLED DC POWER SUPPLY

### Electrical Specifications:

<b>Output Current:</b>	2.4A
<b>Compliance Voltage (@2.4A):</b>	18VDC
<b>Voltage Control:</b>	Two ranges 0-5V and 0-10V (user selectable)
<b>Voltage control input impedance:</b>	20k ohm
<b>Maximum input voltage:</b>	+20V, -10V
<b>Voltage control input cutoff frequency:</b>	5 Hz
<b>Input Voltage:</b>	85 - 264VAC (auto-ranging), 47-63 Hz
<b>Power Consumption:</b>	Less than 100 Watts
<b>Operating Temp. Range:</b>	0 to 40 deg. C
<b>Storage Temp. Range:</b>	-20 to 85 deg. C
<b>Output Protection:</b>	Resettable fuse for short across output terminals or from either terminal to ground

### Front Panel:

<b>Intensity Knob:</b>	Ten-turn potentiometer for intensity (current)
<b>Intensity Control Internal / External Switch:</b>	Allows the intensity to be controlled from the front panel knob or from a voltage supplied to I/O connector on the rear panel
<b>Range Select Switch:</b>	Allows the external control voltage range to be set to 0-5V or 0-10V

### Rear Panel:

<b>I/O Connector:</b>	9 Pin D-subminiature used for control voltage input.
<b>Output Connectors:</b>	15 Pin D-subminiature (one per channel)
<b>Fuse:</b>	(2) 5x20 mm, 3A, 250V



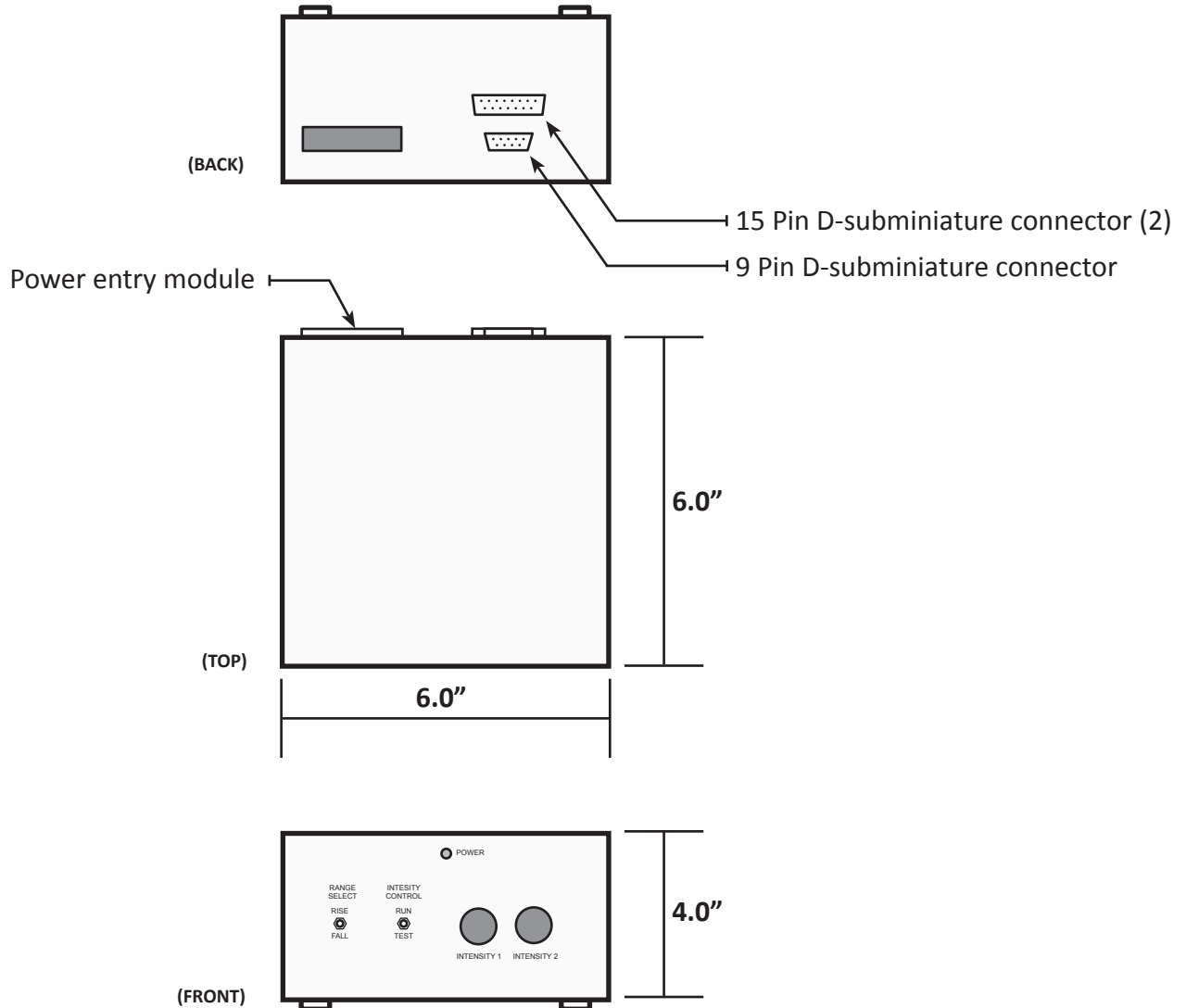
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Data and specifications are subject to change without notice.

To request additional information, please contact **Metaphase Technologies, Inc.** at **215-639-8699**.

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### OPERATING INSTRUCTIONS:

1) Plug the IEC-320 end of the AC line cord into the power entry module on the rear of the unit, and the plug into the mains. (The unit is auto-ranging, therefore no line voltage selection is required.)

2) Attach the cable(s) to the LED heads, and to the 15 pin D-sub. output connector(s).

3) If the unit is to be controlled remotely (intensity), connect the 9 pin O-sub I/O connector to the remote control voltage source. Place the INTENSITY CONTROL toggle switch located on the front panel to the EXT position. Place the RANGE SELECT toggle switch located on the front panel to the desired control voltage range (0-5V or 0-10V). A zero volt input will completely extinguish the LED intensity, and a five or ten volt input (on the 0 -5V or 0 -10V range respectively) will command maximum intensity. The LED current is a linear function of the control voltage.

If the unit is to be controlled via the front panel knobs, place the INTENSITY CONTROL toggle switch (front panel) to the INT position. The LED intensity is now controlled solely by the front panel knobs (INTENSITY 1). The RANGE SELECT switch is disabled when the INTENSITY CONTROL switch is in the INT position.

4) Turn the unit on via the rocker switch located on the power entry module on the rear panel. Current will be supplied to the LED head(s) after a short delay (<0.4sec).

**CAUTION:** Avoid disconnecting the LED head(s) or connecting cable(s) while power is applied to the unit.



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