

## OPERATING INSTRUCTIONS FOR MODEL CPS-TS2-LCD

A TS-2 Cabinet Power Supply with  
Voltage and Current LCD Indications

### General

The Model CPS-TS2-LCD is a TS-2 Cabinet power supply that meets or exceeds NEMA 2003 standard. It requires no set up or configuration. The 3-digit LCDs provide voltage and current values for the AC input and all the outputs.



### CHAN LEDs

The five bi-color LEDs provide continuous indication of the input and output status. Green indicates the voltage and current are normal. Red indicates the voltage or current is out of range. Blinking indicates the channel is selected to view the voltage and current values.

	Low	Normal	High
24V DC Output	18VDC	30VDC	5 Amp
12 VDC Output	8VDC	16VDC	5 Amp
Line Freq Ref	18VDC	30VDC	150mAmp
12 VAC Output	6 V <sub>RMS</sub>	16 V <sub>RMS</sub>	250mAmp
120 VAC Input	75 V <sub>RMS</sub>	150 V <sub>RMS</sub>	5 Amp

### CHAN SELECT

The rotating knob selects one of the 5 channels. When selected the CHAN LED will blink. The voltage and current values for the selected channel are displayed on the LCDs. Pushing the CHAN SELECT knob will turn On the LCDs' backlight. Pushing and holding the CHAN SELECT knob for 5 seconds will reset the power supply.

### 12VDC and 24VDC Overcurrent Shutdown

If the 24 or 12 VDC output goes above 6 amps that output will shut off. The Power supply will periodically attempt to recover by checking if high current condition still exists.

### High Temperature Temporary Shutdown

If temperatures approach 300°F (150°C) inside the power supply, both DC channels shut off until temperature drops below 284°F (140°C).

### Line Frequency Reference Output

A 60 Hz square wave is generated for the line frequency reference (LFR) output. The pulse occurs during the negative half cycle of the AC line sine wave. The LFR output can sink or source 100 mA and it is protected with a self-resetting Polyfuse.

### Front Panel Test Jacks

The front test jacks provide safe and easy access to measure the input AC line voltage and the output voltages 12VAC, 12VDC and 24VDC that are at the PS circular connector.

## OPERATING INSTRUCTIONS FOR MODEL CPS-TS2-LCD

A TS-2 Cabinet Power Supply with  
Voltage and Current LCD Indications

### General

The Model CPS-TS2-LCD is a TS-2 Cabinet power supply that meets or exceeds NEMA 2003 standard. It requires no set up or configuration. The 3-digit LCDs provide voltage and current values for the AC input and all the outputs.



### CHAN LEDs

The five bi-color LEDs provide continuous indication of the input and output status. Green indicates the voltage and current are normal. Red indicates the voltage or current is out of range. Blinking indicates the channel is selected to view the voltage and current values.

	Low	Normal	High
24V DC Output	18VDC	30VDC	5 Amp
12 VDC Output	8VDC	16VDC	5 Amp
Line Freq Ref	18VDC	30VDC	150mAmp
12 VAC Output	6 V <sub>RMS</sub>	16 V <sub>RMS</sub>	250mAmp
120 VAC Input	75 V <sub>RMS</sub>	150 V <sub>RMS</sub>	5 Amp

### CHAN SELECT

The rotating knob selects one of the 5 channels. When selected the CHAN LED will blink. The voltage and current values for the selected channel are displayed on the LCDs. Pushing the CHAN SELECT knob will turn On the LCDs' backlight. Pushing and holding the CHAN SELECT knob for 5 seconds will reset the power supply.

### 12VDC and 24VDC Overcurrent Shutdown

If the 24 or 12 VDC output goes above 6 amps that output will shut off. The Power supply will periodically attempt to recover by checking if high current condition still exists.

### High Temperature Temporary Shutdown

If temperatures approach 300°F (150°C) inside the power supply, both DC channels shut off until temperature drops below 284°F (140°C).

### Line Frequency Reference Output

A 60 Hz square wave is generated for the line frequency reference (LFR) output. The pulse occurs during the negative half cycle of the AC line sine wave. The LFR output can sink or source 100 mA and it is protected with a self-resetting Polyfuse.

### Front Panel Test Jacks

The front test jacks provide safe and easy access to measure the input AC line voltage and the output voltages 12VAC, 12VDC and 24VDC that are at the PS circular connector.