

Standard Capacitor Charging Interface*

15 PIN "D" SUB CONNECTOR FEMALE

PIN #	TITLE/DESCRIPTION	PIN #	TITLE/DESCRIPTION
1	INHIBIT/FAULT RESET- (Input) This pin is the basic ON/OFF control pin for the power supply. Grounding to pin 1 enables charging operation if all faults are clear. Applying +15V prevents the inverter from operating. Leaving Pin 1 open will inhibit operation. <i>(opposite option available)</i>	7	V_{OUT} PEAK HOLD- (OUTPUT) Monitors output voltage with a peak hold circuit. The time constant of the peak hold circuit is approximately 5 seconds. 0 to +10V for 0 to 100% of rated output voltage.
2	FAULT WARNING - (OUTPUT) When either the over-voltage fault, Pin 6, or the OVER-TEMP FAULT indicates a fault status, Pin 2 is pulled to GND through the collector of an NPN transistor. This transistor is rated at 30V, 100mA. When no fault is present, the output of Pin 2 is connected to +15V through a 4.99K resistor. This fault can be cleared by applying +15V to INHIBIT/FAULT RESET function.	8	V_{OUT} MONITOR- (OUTPUT) Monitors output voltage. 0 to +10V for 0 to 100% of rated output voltage.
3	OVER-TEMP FAULT - (OUTPUT) Indicates internal high temperature on main heat sink. When thermal switch closes due to excessive internal heat sink temperature, Pin 6 is pulled to GND through the collector of an NPN transistor. This transistor is rated at 30V, 100mA. When OVER-TEMP WARNING is tripped, unit will stop charging and will not begin charging again until the internal temperature drops to a safe value. When the unit is operating within safe temperatures, the output of Pin 3 is connected to +15V through a 4.99K resistor. This fault can be cleared by applying +15V to INHIBIT/FAULT RESET function.	9	+15V (OUTPUT) Maximum output current is 100mA. This pin is internally tied to pins 11.
5	VOLTAGE PROGRAM- (INPUT) Output is programmed externally with a 0 to +10V signal for 0 to 100% of rated output.	11	+15V (OUTPUT) Maximum output current is 100mA. This pin is internally tied to pins 9.
6	OVERVOLTAGE STATUS INDICATOR- (OUTPUT) If the load becomes open circuited, the power supply will detect the fault and shut down instantaneously, protecting itself and other equipment from over-voltages. If this occurs, pin 6 is pulled to GND through the collector of an NPN transistor. This transistor is rated at 30V, 100mA. To restart, a capacitor load must be connected to the output and AC power must be turned OFF and ON again. When an appropriate load is connected to the output, the output of Pin 6 is connected to +15V through a 4.99K resistor. This fault can be cleared by applying +15V to INHIBIT/FAULT RESET function.	13	END OF CHARGE STATUS INDICATOR- (OUTPUT) When the load capacitor reaches the programmed voltage, pin 13 is pulled to GND through the collector of an NPN transistor. This transistor is rated at 30V, 100mA. While the load capacitor is being charged to the programmed voltage, the output of Pin 6 is +15V through a 4.99K resistor. Pin 13 will oscillate from high to low as the power supply replaces charge that is bled through the feedback network.
		14	GND
		15	GND
		4,10,12	No CONNECTION

*This interface description is the standard CCPF-3500 Interface. There are minor differences in interfaces functions in CCPF models. Contact Lumina Power for detailed interface information for other models.