

n/c = No Connection
x = Don't Care

Item	INPUTS					OUTPUTS								
	CONN-1	CONN-2	CONN-3	SWITCH-1	SWITCH-2	CONN-4	CONN-5	LED-1	LED-2	LED-3	LED-4	Ion Pump		
Function	15V Power Input Jack	Alt. 15V Power Input	Return for Alt. 15V Power Input	Main Battery Power Switch	Bargraph and Voltage Monitor Battery Power Switch	Return for Voltage Monitor	Voltage Monitor Pass-through from Ion Pump Power Supply	Input Power	Charging Status	Main Battery Power	Bargraph and Monitor Battery Power	High Voltage	Bargraph Display	Voltage Monitor
CONFIG:														
Charging - DC Jack	+15V via DC Jack	n/c	x	x	x	Voltage Monitor (-)	Voltage Monitor (+)	ON	ON	OFF	OFF	ON	ON	ON
Charging - Alt. 15VDC Input	n/c	+15V	0V	x	x	Voltage Monitor (-)	Voltage Monitor (+)	ON	ON	OFF	OFF	ON	ON	ON
Off	n/c	n/c	x	OFF	x	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
On Battery - Pump Only	n/c	n/c	x	ON	OFF	OFF	OFF	OFF	OFF	Blinking	OFF	ON	OFF	OFF
On Battery - Pump and Display	n/c	n/c	x	ON	ON	Voltage Monitor (-)	Voltage Monitor (+)	OFF	OFF	Blinking	Blinking	ON	ON	ON

Charging - DC Jack:	In this configuration, 15V is being applied via the DC barrel jack. This will power the battery charger inside the unit and fully powers the ion pump power supply (H.V. supply, bargraph display, and voltage monitor) by passing 15VDC to it. The ion pump power supply will be powered regardless of the position of the switches on the battery backup. If it is desired to use the battery backup as an uninterruptible power supply the main battery power switch will need to be set in the on position so that the unit can immediately switch to battery power on the loss of 15VDC. Note that the positive pin of the barrel jack and the alternate power input are connected internally, and should not be used simultaneously.
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Charging - Alt. 15VDC Input:	In this configuration, 15V is being applied via the alternate power input. This will power the battery charger inside the unit and fully powers the ion pump power supply (H.V. supply, bargraph display, and voltage monitor) by passing 15VDC to it. The ion pump power supply will be powered regardless of the position of the switches on the battery backup. If it is desired to use the battery backup as an uninterruptible power supply the main battery power switch will need to be set in the on position so that the unit can immediately switch to battery power on loss of 15VDC. Note that the positive pin of the barrel jack and the alternate power input are connected internally, and should not be used simultaneously.
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Off:	To completely power down both the battery backup unit and any connected ion pump power supply remove 15VDC input power and set the main battery power switch to the off position.
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On Battery - Pump Only:	In this configuration 15VDC is not being applied to the battery backup unit, the main battery power switch is in the on position, and the bargraph and voltage monitor battery power switch is in the off position. This will power the ion pump H.V. supply <u>only</u> , and is the configuration with the longest battery run time (see run time charts). In this configuration the bargraph display, voltage monitor, and power on led on the ion pump power supply are <u>not</u> powered and will not function.
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On Battery - Pump and Display:	In this configuration 15VDC is not being applied to the battery backup unit, and both the main battery power switch and the bargraph and voltage monitor switch are in the on position. This will power the H.V. supply, bargraph display, and voltage monitor.
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*For a detailed description of the various LED states and the location of other items please see *I/O Description* drawing