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PRL-760C, FOUR OUTPUT POWER SUPPLY FOR PULSE RESEARCH LAB MODULES

APPLICATIONS

- Powering Pulse Research Lab Modules

FEATURES

- 4 DC Output Jacks, 4P4C
- 3 Output Voltages, +8.5, -8.5, +17, nominal
- Manually switchable 120 VAC or 220 VAC input, 50/60 Hz
- AC Fuse Current Limit



PRL-760C, 4-Output Power Supply, Switched for 120 VAC Input

DESCRIPTION

The PRL-760C is a four-output linear power supply for powering Pulse Research Lab modules. A revision letter may be marked on the unit, e.g. "PRL-760C4," to indicate the manufacturing revision, but all PRL-760C revisions are interchangeable.

The input supply voltage can be manually selected to be either 120 VAC or 220 VAC (±10%) by a slider switch. This supply is not auto-switching, and connecting it to the incorrect supply voltage will void your warranty and may damage the unit and the modules attached to the unit.

The four sets of DC outputs are designed for powering modules from Pulse Research Lab. Each output supplies 3 voltages, nominally -8.5 VDC, +8.5 VDC, and +17 VDC, and a common return via a 4-position, 4 conductor (4P4C) modular jack. Not all PRL products use all 3 supply voltages; many use only the ±8.5 V voltages, and some use only the +8.5 V voltage. Please check each module's specifications to see the voltage and currents required.

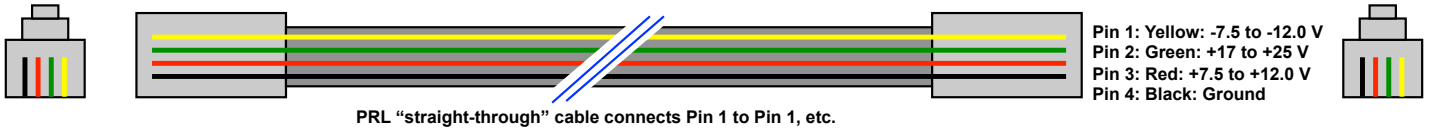
The PRL-760C is housed in a 3.90 x 2.73 x 5.44-in. molded plastic enclosure with a hard-wired AC input cable (US, two-prong polarized, NEMA 1-15P) and a 250VAC/1A slow-blow fuse (5mm x 20mm).

The power supply may be ordered as part number:

- PRL-760C-120, with the input voltage selector switched for 120 VAC input, including 4 DC output cables (88000102-4)
- PRL-760C-220, with the input voltage selector switched for 220 VAC input, including 4 DC output cables (88000102-4)

The input selector may be changed by the user at any time.

DC power from the PRL-760C may be further distributed using the PRL-730 Voltage Distribution Module, with 8 bussed 4P4C jacks.



Revised: 10/30/18

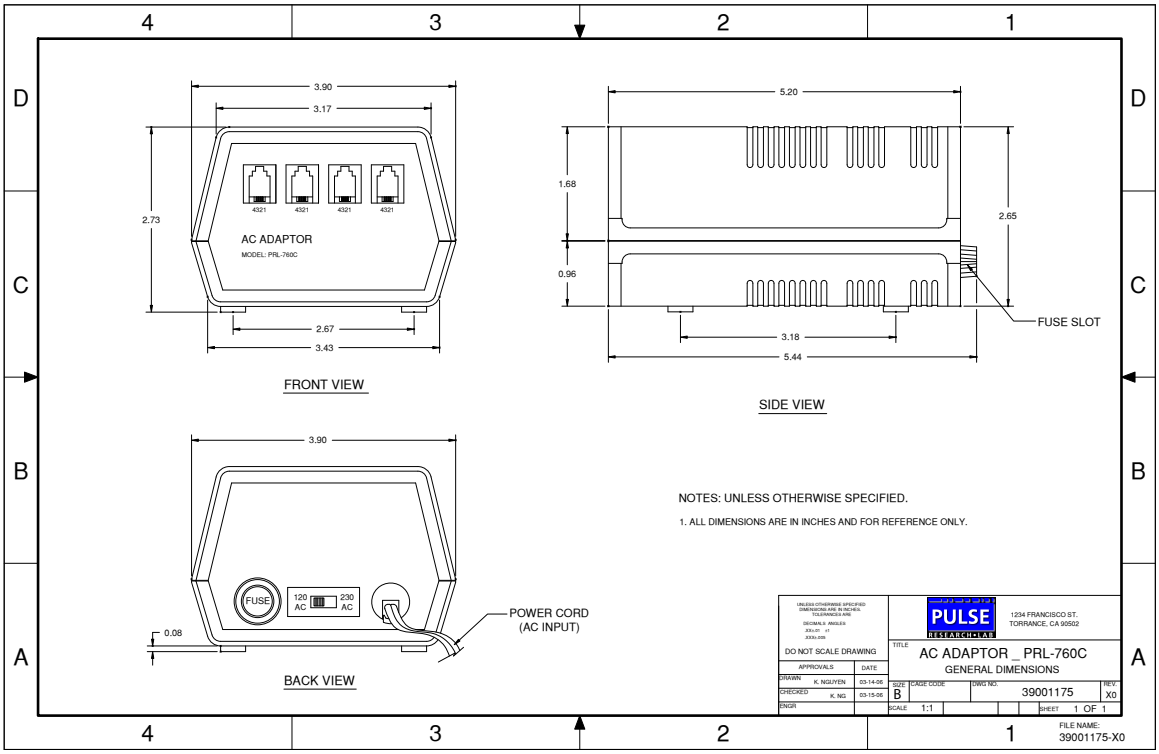
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*PRELIMINARY SPECIFICATIONS (0° C ≤ T_A ≤ 35° C)

SYMBOL	PARAMETER	Min	Typ	Max	UNIT	Comment
V_{AC1}	AC/DC Adapter Input Voltage (120 VAC)	108	120	132	V	
I_{AC1}	AC Input Current (120 VAC)		0.30	0.51	V	½ load/full load
V_{AC2}	AC/DC Adapter Input Voltage (220 VAC)	216	240	264	V	
V_{DC1}	DC Output Voltage, +8.5 VDC rail	10	12	14	V	unloaded
I_{DC1}	Maximum DC Output Current +8.5 VDC rail		1.80	1.96	A	
V_{DC2}	DC Output Voltage, -8.5 VDC rail	-14	-12	-10	V	unloaded
I_{DC2}	Maximum DC Output Current -8.5 VDC rail	-1.96	-1.80		A	
V_{DC3}	DC Output Voltage, +17 VDC rail	22	24	26	V	unloaded
I_{DC3}	Maximum DC Output Current +17 VDC rail	-	200	256	mA	
	AC input plug connector	NEMA 1-15P				Polarized
	AC input cable length	4.7’	5.0’	5.7’		
	DC output socket connector	4P4C				Modular Jack
	Size	3.90 x 2.73 x 5.44			in.	
	Shipping Weight	3.0			lb	

V_O TABLE, TYPICAL. ACTUAL VALUES ± 10% (0° C ≤ T_A ≤ 35° C)

	NO LOAD			½ LOAD			FULL LOAD		
Line Voltage	+8.5 V Rail	-8.5 V Rail	+17 V Rail	+8.5 V Rail @ 1.0 A	-8.5 V Rail @ 1.0 A	+17 V Rail @ 0.16 A	+8.5 V Rail @ 1.8 A	-8.5 V Rail @ 1.8 A	+17 V Rail @ 0.25 A
132 V_{AC}	13	-13	26	11	-11	22	10	-10	20
120 V_{AC}	12	-12	24	10	-10	19	9	-9	17
108 V_{AC}	11	-11	22	9	-9	17	8	-8	15



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