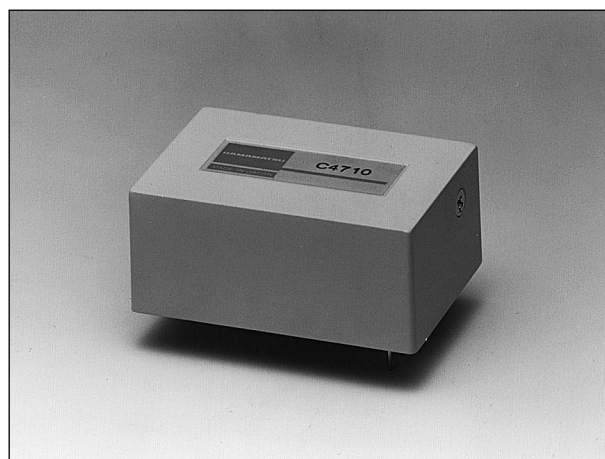


The C4710 series are PC-board mountable high voltage supplies for photomultiplier tubes. The series has six standard versions.

FEATURES

- Compact and Lightweight
- High Stability
- High Output Power
- Complete Fail-safe Functions
- Six-plane Metal Shielded



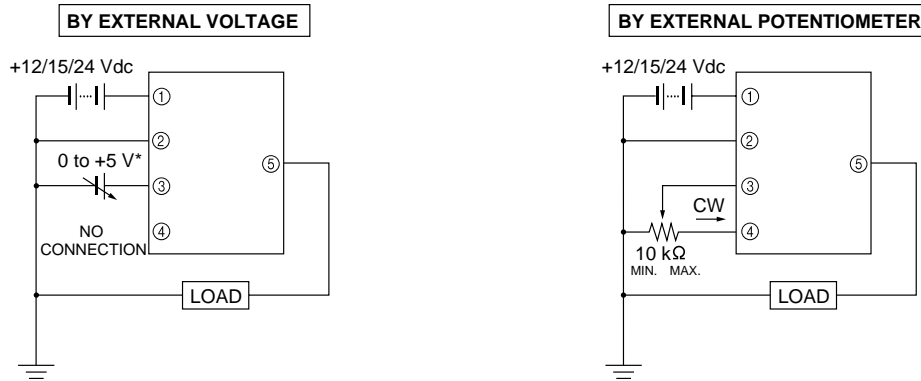
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SPECIFICATIONS

Parameter	C4710 Series						Unit		
	C4710	C4710-01	C4710-02	C4710-50	C4710-51	C4710-52			
Input Voltage	+15 ± 1	+12 ± 1	+24 ± 1	+15 ± 1	+12 ± 1	+24 ± 1	Vdc		
Input Current at Maximum	with no load		95	120	65	95	120	65	mA (Typ.)
Output Voltage	with full load		260	340	145	260	340	145	
Specification Guaranteed Output Voltage Range	-240 to -1500			+240 to +1500			Vdc		
Output Current	1						mA (Max.)		
Input Regulation against ± 1V Input Change	±0.01	±0.015	±0.015	±0.02	±0.02	±0.015	% (Typ.)		
Load Regulation against 0 to 100% Load Change	±0.01	±0.015	±0.01	±0.01	±0.01	±0.01	% (Typ.)		
Ripple / Noise (p-p)	0.005						% (Typ.)		
Output Voltage Controlling Modes	By external controlling voltage (+0.8 to +5 V) or external potentiometer (10 kΩ)						-		
Controlling Voltage Input Impedance	40			56			kΩ (Typ.)		
Output Voltage Setting	±(Controlling voltage × 300) ± 0.5%						V		
Output Voltage Rise Time (0 → 100%)	100						ms (Typ.)		
Temperature Coefficient	±0.01						%/°C (Typ.)		
Operating Temperature Range	+5 to +40						°C		
Storage Temperature Range	-10 to +60						°C		
Dimensions (W × H × D)	65 × 27.5 × 45						mm		
Weight	105						g		
Protective Functions	Units protected against reversed power input, reversed/excessive controlling voltage input, continuous overloading/short circuit in output						-		

HIGH VOLTAGE POWER SUPPLY UNIT C4710 SERIES

Figure 1: Output Voltage Controlling



* The ripple/noise in the external controlling voltage should be minimized as it directly affects the output voltage.

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Figure 2: Output Voltage Controlling Characteristics

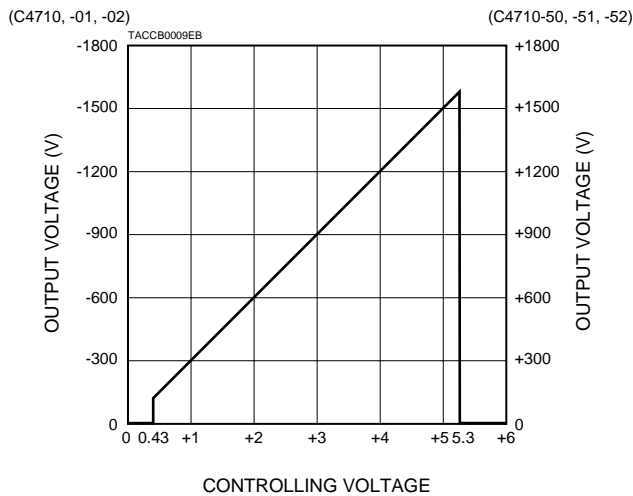
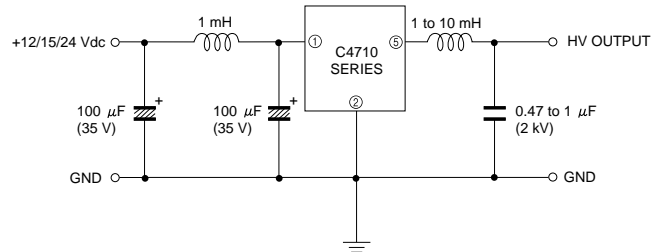


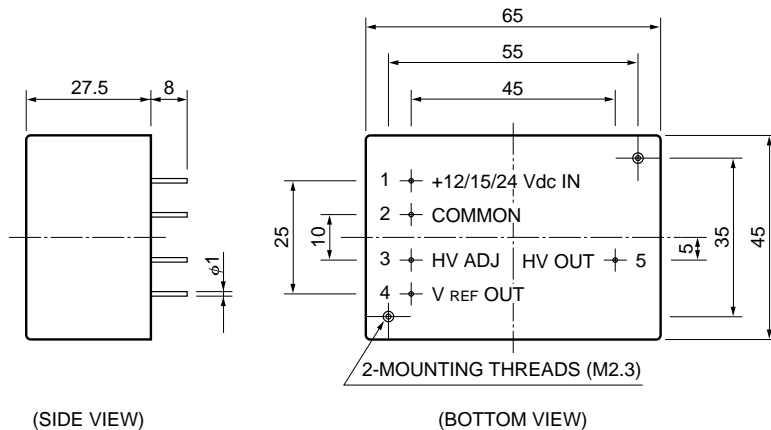
Figure 3: Example of Ripple / Noise Reduction Circuit



*The ripple/noise can be reduced to approx. 1/10 by adding a choke coil and capacitor as illustrated above.

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Figure 4: Dimensional outline (Unit: mm)



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