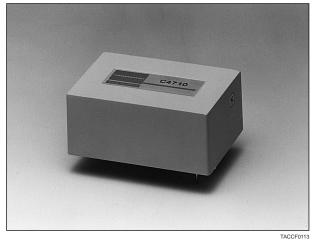


# **HIGH VOLTAGE POWER SUPPLY UNIT C4710 SERIES**

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



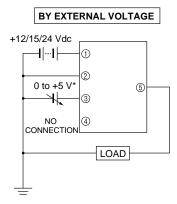
#### **SPECIFICATIONS**

Parameter		C4710 Series						I I m ! 4
		C4710	C4710-01	C4710-02	C4710-50	C4710-51	C4710-52	Unit
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	ПΑ (Тур.)
Specification Guaranteed		-240 to -1500 +240 to -					0	Vdc
Output Voltage Range		-240 10 - 1300			+240 to +1500			vuc
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%		±0.01	±0.015	±0.01	±0.01	±0.01	±0.01	0/ (Tvp.)
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 k $\Omega$ )						_
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 $\times$ H $\times$ 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						

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## **HIGH VOLTAGE POWER SUPPLY UNIT C4710 SERIES**

Figure 1: Output Voltage Controlling



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

### BY EXTERNAL POTENTIOMETER +12/15/24 Vdc 1 2 (5) (3) CW 4 10 kΩ MIN. MAX. LOAD

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Figure 2: Output Voltage Controlling Characteristics

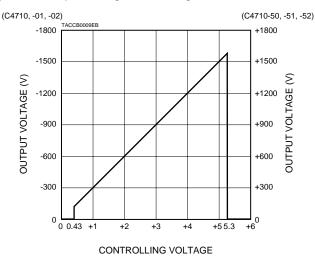
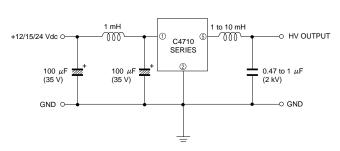


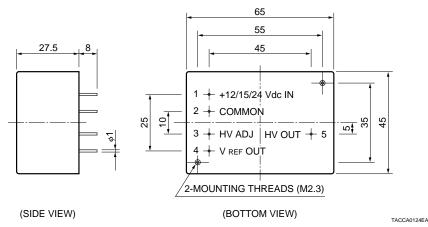
Figure 3: Example of Ripple / Noise Reduction Circuit



\*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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