

Compact High Voltage Power Supply Units C4710 Series

The C4710 series comprises on-board type high voltage power supply units, designed specifically for photomultiplier tube operations. The C4710 series is designed for ease of use and high performance, and can be selected from among 6 models to meet your various needs.

- FEATURES
- Compact and lightweight
 - High stability
 - High output voltage up to 1500 V
 - Ample protective functions
 - Fully enclosed metal-shielded package

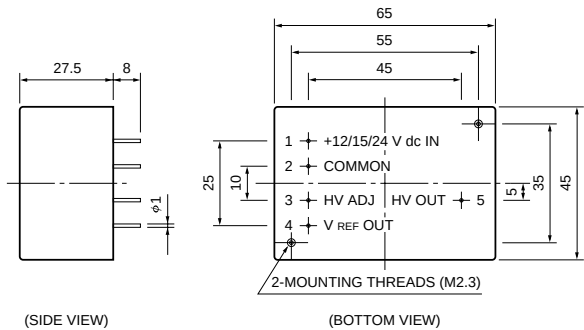


Specifications

Parameter		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	V dc
Input Current Ⓐ	with no load	95	120	65	95	120	65	mA Typ.
	with full load	260	340	145	260	340	145	
Specification Guaranteed Output Voltage Range		−240 to −1500			+240 to +1500			V dc
Output Current		1						mA Max.
Line Regulation against ±1 V 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 Control		By external controlling voltage (+0.8 V to +5 V) or external potentiometer (10kΩ)						—
Controlling Voltage Input Impedance		40			56			kΩ Typ.
Output Voltage Setting (Absolute Value)		(Controlling Voltage ×300) ±0.5%						V Typ.
Output Voltage Rise Time (0 %→99 %) Ⓑ		100						ms Typ.
Temperature Coefficient Ⓑ		±0.01						%/°C Typ.
Operating Temperature Ⓑ		0 to +40						°C
Storage Temperature		−20 to +60						°C
Weight		105						g
Protective Functions		Units protected against reversed power input, reversed/ excessive controlling voltage input, continuous overloading/short circuit in output.						—

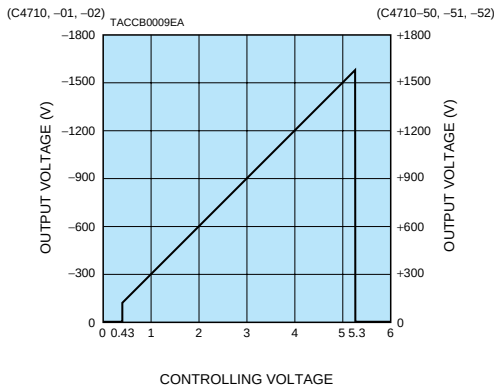
NOTE **A** At maximum output voltage.
B At maximum output voltage and current.

Dimensional Outlines (Unit: mm)



TACCA0124EA

Output Voltage Controlling Characteristic



Compact High Voltage Power Supply Units C1309 Series

- FEATURES
- Compact and lightweight
Allows direct mounting on a PC board.
 - High stability
Ensures excellent input regulation, load regulation and drift.
 - Fully enclosed metal-shielded package
Provides effective noise shielding

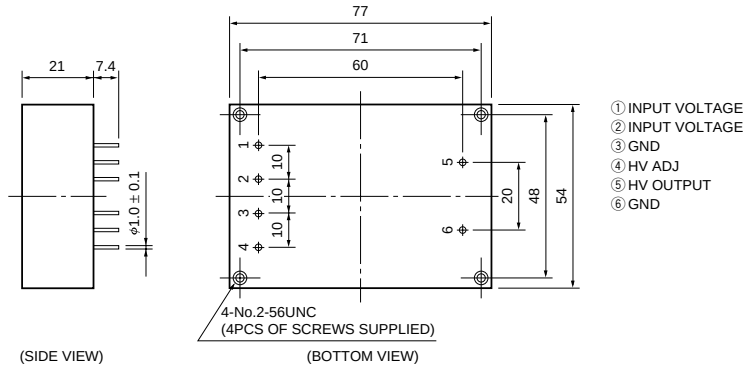


Specifications

Parameter	C1309-01	C1309-02	C1309-04	C1309-06	Unit
Input Voltage A	+12 to +16	+14 to +16	+14 to +16	+14 to +16	V dc
Input Current A B	300	170	170	250	mA Max.
Output Voltage	−400 to −800	−200 to −1100	−200 to −1100	−400 to −1500	V dc
Specification Guaranteed Output Voltage Range	−500 to −800	−400 to −1100	−400 to −1100	−500 to −1500	V dc
Output Current	2	0.7	0.7	1	mA Max.
Line Regulation B C	±0.1	±0.06	±0.06	±0.05	% Typ.
Load Regulation against 0 to 100% Load Change D	±0.1	±0.15	±0.15	±0.2	% Typ.
Ripple/Noise (p-p) B	300	100	100	150	mV Typ.
Drift (After Warm-up) B	±0.2	±0.1	±0.02	±0.1	%/h Typ.
Programming Resistance	1	10	10	10	kΩ
Programming Voltage	+4.8 to +7	0 to +1.4	0 to +1.4	0 to +1.4	V dc
Output Voltage Rise Time (10 %→90 %) B	30	200	200	200	ms Typ.
Temperature Coefficient B E	±0.05	±0.03	±0.005	±0.02	%/ °C Typ.
Warm-up Time	15	15	15	15	min Typ.
Operating Temperature B	+5 to +40	+5 to +40	+5 to +40	+5 to +40	°C
Storage Temperature	−5 to +60	−5 to +60	−5 to +60	−5 to +60	°C
Weight	140	120	120	120	g

NOTE **A** With single supply voltage.
B Maximum output voltage and current.
C ±2 V input change for C1309-01.
±1 V input change for C1309-02, -04 and -06.
D Maximum output voltage.
E Operating temperature: +5 °C to +40 °C

Dimensional Outlines (Unit: mm)



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