HAMAMATSU

PHOTON IS OUR BUSINESS

POWER SUPPLIES FOR PHOTOMULTIPLIER TUBE MODULES
C7169 SERIES/C10709 SERIES

The C7169 and C10709 are the power supplies which can be used for various photomultiplier tube (PMT) modules produced by Hamamatsu. These power supplies can provide both the driving voltage and the control voltage. Please refer to photomultiplier tube module catalog for compatible photomultiplier tube module products.

SPECIFICATIONS

Parameter	C7169 series		C10709 series		Unit
Output voltage	+15	-15	+5	-5	V
Max. output current	0.3	0.2	2.0	0.2	A
Max. Vref input (VREF)	+1.8				V
Vcont output (CONTROL) ①	+0.25 to +1.8				V
Terminal connection method	Binding post				—
AC input voltage ②	100 to 240				V
AC input frequency	50 / 60				Hz
Max. AC input current consumption	0.5				A
Operating ambient temperature ③	+5 to +50				°C
Operating ambient humidity ③	Below 80				%RH
Storage temperature ③	-20 to +50				°C
Storage humidity ③	Below 80				%RH
Weight	Approx. 1.2				kg

NOTE: ①Adjust within the recommended Vcont range for the photomultiplier tube module being used.
②According to the applicable safety standard of the supplied power code.
③No condensation

Guide of Type No. for power code

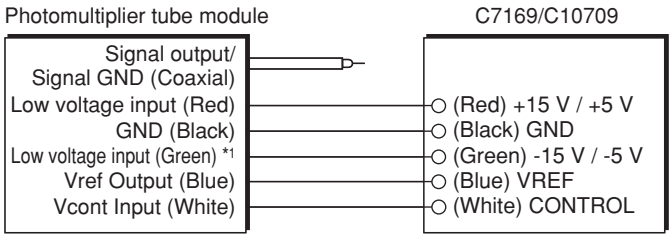
C7169-C□/C10709-C□

"□" Type No.
2: For Japan & U.S.A. (UL / PSE: AC 125 V)
3: For Europe (CEE: AC 250 V)
4: For China (GB: AC 250 V)
5: For United Kingdom (BS: AC 250 V)

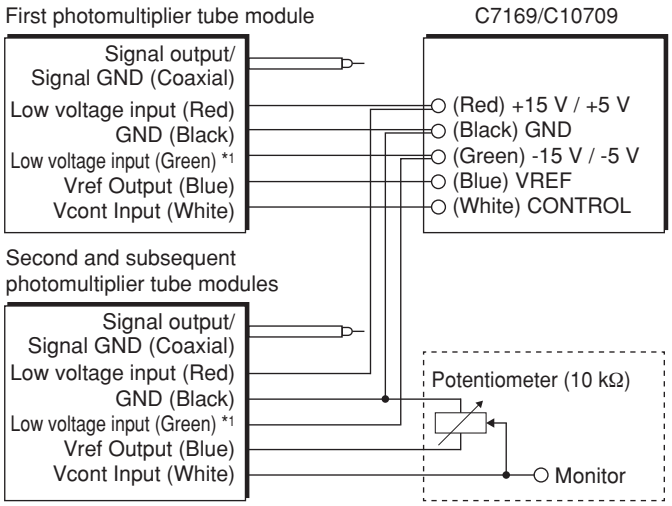
CONNECTION DIAGRAMS

The connection of the C7169/C10709 and the photomultiplier tube module must be made while the C7169/C10709 power is "OFF".
Please make proper wiring connection otherwise the photomultiplier tube module may be damaged.

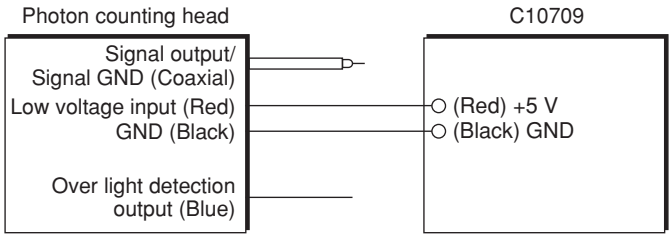
Analog output type photomultiplier tube module



Multiple photomultiplier tube module connection *2

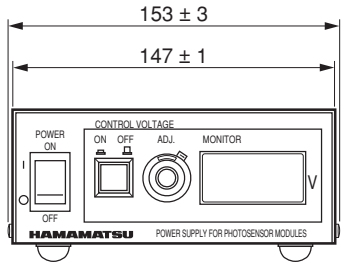


Photon counting head

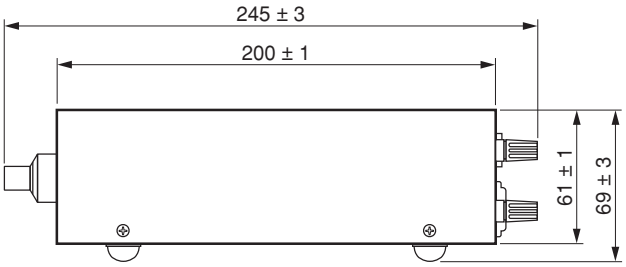


*1 Amplifier built-in type only. For current output type, -15 V / -5 V (Green) is not connected.
*2 Vcont of first photomultiplier tube module is adjusted by C7169 / C10709.
Vcont of second and subsequent photomultiplier tube module is adjusted by potentiometer.

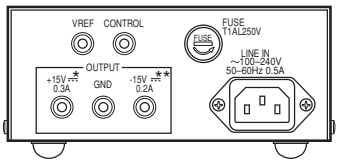
DIMENSIONAL OUTLINE (Unit: mm)



FRONT VIEW



SIDE VIEW



REAR VIEW

* +5V 2.0A for C10709

** -5V 0.2A for C10709

TERMINAL COLOR

Red : * +15V 0.3A for C7169, * +5V 2.0A for C10709

Black : GND

Green: ** -15V 0.2A for C7169, ** -5V 0.2A for C10709

Blue : VREF

White : CONTROL

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