

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
	+15	-15	+5	-5	
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: ① Adjust within the recommended Vcont range for the photomultiplier tube module being used.

② According to the applicable safety standard of the supplied power code.

③ No 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)

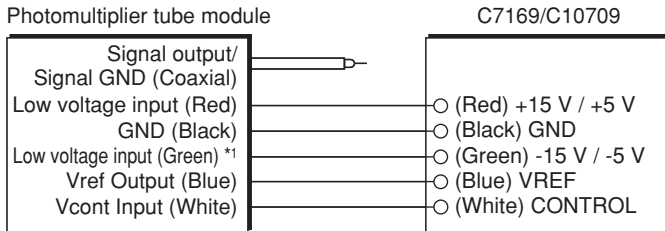
POWER SUPPLIES FOR PHOTOMULTIPLIER TUBE MODULES

C7169 SERIES/C10709 SERIES

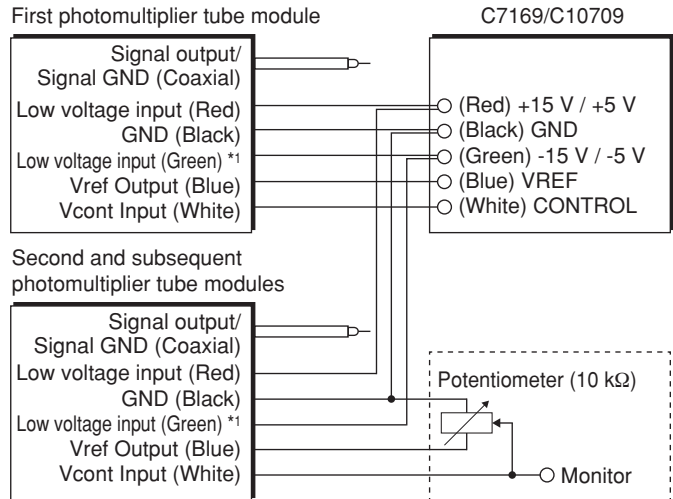
CONNECTION DIAGRAMS

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.

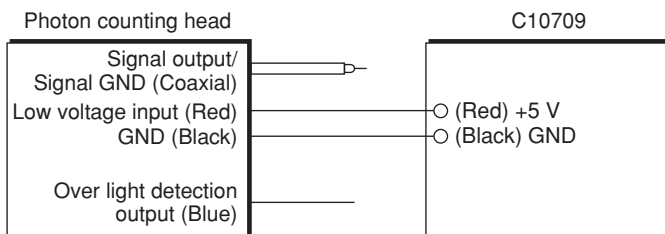
Analog output type photomultiplier tube module



Multiple photomultiplier tube module connection *2



Photon counting head

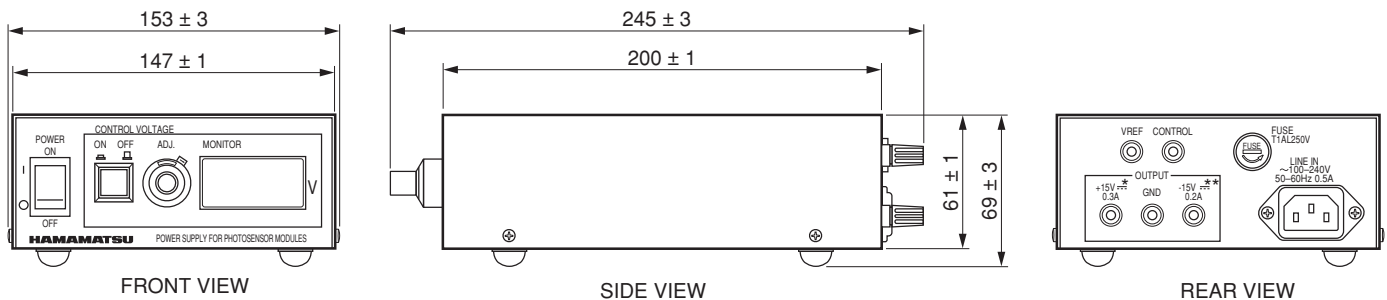


*1 Amplifier built-in type only. For current output type, -15 V / -5 V (Green) is not connected.

*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)



* +5V $\frac{2.0A}{0.3A}$ for C10709

** -5V $\frac{0.2A}{0.2A}$ for C10709

TERMINAL COLOR

Red : * +15V $\frac{0.3A}{2.0A}$ for C7169, * +5V $\frac{0.3A}{2.0A}$ for C10709

Black : GND

Green: ** -15V $\frac{0.2A}{0.2A}$ for C7169, ** -5V $\frac{0.2A}{0.2A}$ for C10709

Blue : VREF

White : CONTROL

TACCA0186ED

HAMAMATSU PHOTONICS K.K. www.hamamatsu.com

Electron Tube Division

314-5, Shimokanzo, Iwata City, Shizuoka Pref., 438-0193, Japan, Telephone: (81)539/62-5248, Fax: (81)539/62-2205

U.S.A.: HAMAMATSU CORPORATION: 360 Foothill Road, Bridgewater, NJ 08807, U.S.A., Telephone: (1)908-231-0960, Fax: (1)908-231-1218 E-mail: usa@hamamatsu.com

Germany: HAMAMATSU PHOTONICS DEUTSCHLAND GMBH.: Arzbergerstr. 10, 82211 Herrsching am Ammersee, Germany, Telephone: (49)8152-375-0, Fax: (49)8152-265-8 E-mail: info@hamamatsu.de

France: HAMAMATSU PHOTONICS FRANCE S.A.R.L.: 19 Rue du Saulie Trappu, Parc du Moulin de Massy, 91882 Massy Cedex, France, Telephone: (33)1 69 53 71 00, Fax: (33)1 69 53 71 10 E-mail: info@hamamatsu.fr

United Kingdom: HAMAMATSU PHOTONICS UK LIMITED: 2 Howard Court, 10 Twin Road, Welwyn Garden City, Hertfordshire, AL7 1BW, UK, Telephone: (44)1707-294888, Fax: (44)1707-325777 E-mail: info@hamamatsu.co.uk

North Europe: HAMAMATSU PHOTONICS NORDEN AB: Torshamnsgatan 35, 16440 Kista, Sweden, Telephone: (46)8-509-031-00, Fax: (46)8-509-031-01 E-mail: info@hamamatsu.se

Italy: HAMAMATSU PHOTONICS ITALIA S.R.L.: Strada della Moia, 1 int. 6 20044 Arese (Milano), Italy, Telephone: (39)02-93 58 17 33, Fax: (39)02-93 58 17 41 E-mail: info@hamamatsu.it

China: HAMAMATSU PHOTONICS (CHINA) CO., LTD.: 1201, Tower B, Jiaming Center, 27 Dongsanhuan Bellu, Chaoyang District, 100020 Beijing, P.R. China, Telephone: (86)10-6586-6006, Fax: (86)10-6586-2866 E-mail: hpc@hamamatsu.com.cn

Taiwan: HAMAMATSU PHOTONICS TAIWAN CO., LTD.: 8F-3, No. 158, Section 2, Gongdao 5th Road, East District, Hsinchu, 300, Taiwan R.O.C. Telephone: (866)3-659-0080, Fax: (866)3-659-0081 E-mail: info@hamamatsu.com.tw

TACC1049E06

MAR. 2023 IP