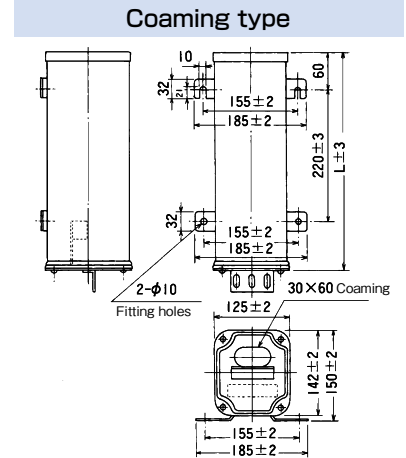
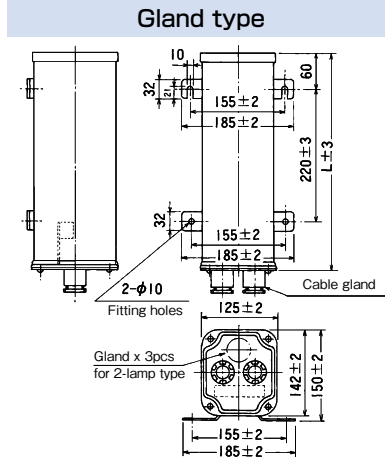


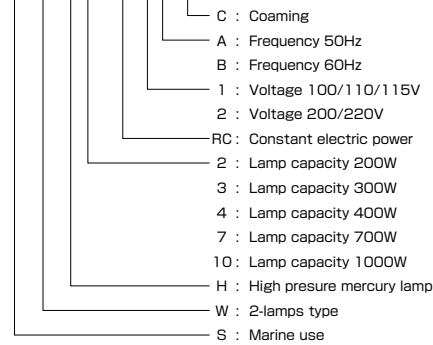
HID BALLAST

Constant electric power type high pressure mercury · sodium lamp ballast



High pressure mercury lamp ballast

S(W)H2-RC1B-(C)



High pressure sodium lamp ballast

S(W)NH4-TCP1B-(C)

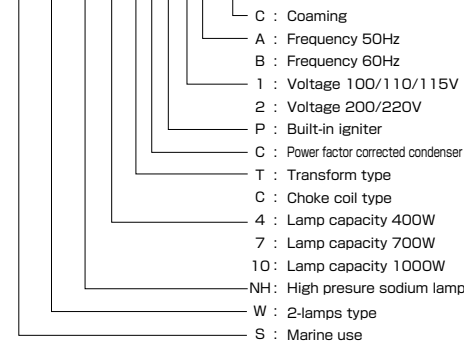


Fig.2

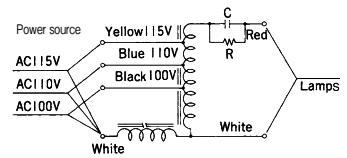
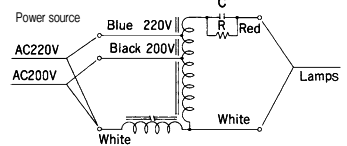


Fig.2



Ballast for Mercury lamp

Model	Rated input voltage (V)	Rated frequency (Hz)	Lamp wattage (W)	Input current (A)			Power factor	Secondary no-road voltage(V)	Secondary short no-road voltage(A)	Lamp current (A)	Ambient temperature (°C)	Weight (kg)	Fig.	L (mm)			
				Starting	Operating	Input wattage											
SH2-RC1B(A)	AC 100	60 (50)	200×1	2.5/2.2/2.1	2.5/2.2/2.1	230	90	220	2.8	1.9	45	9.5	1	362			
SH3-RC1B(A)			300×1	3.6/3.3/3.1	3.6/3.3/3.1	340									3.6	2.5	10.5
SH4-RC1B(A)			400×1	4.6/4.2/4.0	4.6/4.2/4.0	450									4.8	3.3	14.0
SH7-RC1B(A)			700×1	8.2/7.4/7.1	8.2/7.4/7.1	775									8.4	5.9	21.5
SH10-RC1B(A)			1000×1	12.0/11.0/10.5	12.0/11.0/10.5	1100									12.0	8.3	30.0
SH2-RC2B(A)	AC 200	60 (50)	200×1	1.2/1.1	1.2/1.1	230	90	220	2.8	1.9	45	9.5	2	362			
SH3-RC2B(A)			300×1	1.8/1.6	1.8/1.6	340									3.6	2.5	10.5
SH4-RC2B(A)			400×1	2.3/2.1	2.3/2.1	450									4.8	3.3	14.0
SH7-RC2B(A)			700×1	4.1/3.7	4.1/3.7	775									8.4	5.9	21.5
SH10-RC2B(A)			1000×1	5.8/5.5	5.8/5.5	1100									12.0	8.3	30.0
SWH2-RC1B(A)	AC 100	60 (50)	200×2	4.85/4.4/4.2	4.85/4.4/4.2	460	90	220	2.8	1.9	45	22.0	3	530			
SWH3-RC1B(A)			300×2	7.15/6.5/6.2	7.15/6.5/6.2	680									3.6	2.5	23.0
SWH4-RC1B(A)			400×2	9.5/8.6/8.2	9.5/8.6/8.2	900									4.8	3.3	25.0
SWH2-RC2B(A)	AC 200	60 (50)	200×2	2.45/2.2	2.45/2.2	460	90	220	2.8	1.9	45	22.0	4	530			
SWH3-RC2B(A)			300×2	3.6/3.25	3.6/3.25	680									3.6	2.5	23.0
SWH4-RC2B(A)			400×2	4.7/4.25	4.7/4.25	900									4.8	3.3	25.0

Available 700Wx2 and 1000Wx2 lamps type on request.

Ballast for High pressure sodium lamp

Model	Rated input voltage (V)	Rated frequency (Hz)	Lamp wattage (W)	Input current (A)			Power factor	Secondary short no-road voltage(A)	Lamp current (A)	Ambient temperature (°C)	Weight (kg)	Fig.	L (mm)			
				Starting	Operating	Input wattage										
SNH4-TCP1B(A)	AC100	60 (50)	400×1	6.2/5.6/5.4	5.0/4.5/4.35	450	85	10.0	7.9	45	16.0	5	472			
SNH7-TCP1B(A)	110		700×1	9.9/9.0/8.6	8.6/7.8/7.45	780								14.5	11.1	28.0
SNH10-TCP1B(A)	115		1000×1	14.0/12.7/12.2	12.2/11.1/10.6	1100								6.2/5.8	4.7	12.0
SNH4-CCP2B(A)	200	60 (50)	400×1	2.7/2.3	2.4/2.2	440	85	10.0/9.7	7.9	45	18.0	6	472			
SNH7-CCP2B(A)			700×1	4.8/4.2	4.2/3.85	760								14.5/13.4	11.1	24.0
SNH10-CCP2B(A)			1000×1	6.5/5.2	6.0/5.4	1070										

Available 400Wx2 lamps type on request.

Fig.3

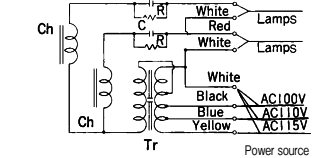


Fig.4

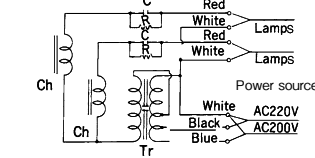


Fig.5

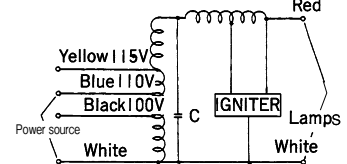
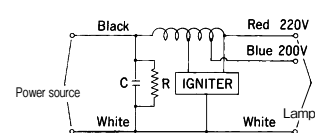


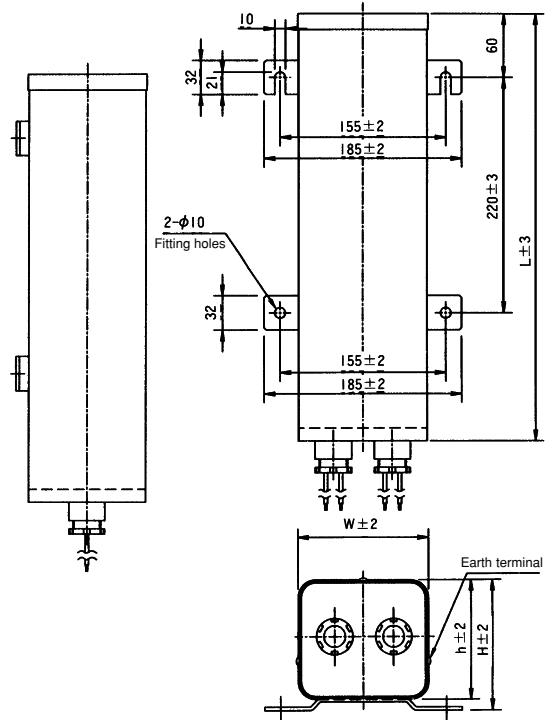
Fig.6



HID BALLAST

High pressure sodium lamp • Metal halide lamp

This product is the mercury lamp ballast of high power-factor type (power factor of 85% or more) most suitable when there is adequate room for a power source and wiring, with little change in power source voltage (within $\pm 6\%$), or when there is a desire to reduce installation expenses. This is the most economical ballast arranged for high safety by giving protective functions to its capacitors, and applicable to the standard ambient temperature of 45°C , so that it can be used on ships. It is also light weight. Furthermore, this ballast can be utilized for high-voltage sodium lamps or metal halide lamps. When requested by customers, ballasts of coating type will also be produced.



Model	Rated input voltage (V)	Rated frequency (Hz)	Lamp wattage (W)	Input current (A)			Secondary short no-road voltage(A)	Secondary short no-road voltage(A)	Lamp current (A)	Weight (kg)	Fig.	(mm)			
				Starting	Operating	Input wattage						L	h	H	W
SH4TC1B	100	60	400	7.00	4.70	435	210	5.4	3.3	10.5	1	355	102	112	112
SH4TC11B	110	60	400	6.40	4.30	435	210	5.4	3.3	10.5	1	355	102	112	112
SH4CC22B	220	60	400	3.57	2.14	420	—	5.18	3.3	6.0	2	355	102	112	112
SH7TC1B	100	60	700	13.0	8.50	765	210	9.5	5.9	18.0	1	400	112	122	122
SH7TC11B	110	60	700	12.0	7.70	765	210	9.5	5.9	18.0	1	400	112	122	122
SH7CC22B	220	60	700	6.36	3.76	745	—	9.1	5.9	9.0	2	355	102	112	112
SH10TC1B	100	60	1000	20.0	12.0	1095	210	13.5	8.3	25.0	1	440	140	150	125
SH10TC11B	110	60	1000	18.0	11.0	1095	210	13.5	8.3	25.0	1	440	140	150	125
SH10CC22B	220	60	1000	8.6	5.3	1050	—	12.5	8.3	12.0	2	355	102	112	112
SWH4TC1B	100	60	400×2	14.0	9.4	870	210/210	5.4/5.4	3.3/3.3	15.0	3	440	140	150	125
SWH4TC11B	110	60	400×2	12.8	8.6	870	210/210	5.4/5.4	3.3/3.3	15.0	3	440	140	150	125
SWH4CC22B	220	60	400×2	7.14	4.28	840	—	5.18/5.18	3.3/3.3	12.0	4	400	112	122	122

Applicable lamp for ballast

Ballast	Mercury lamp	Sodium lamp	Metal halide lamp
SH4TC 1B			
SH4TC11B	H400	NH360L	M400LS/U
SH4CC22B	HF400X	NH360FL	MF400LS/U
SWH4TC1B	HRF400X	NHR360L	
SWH4TC11B	HR400N		
SWH4CC22B			
SH7TC 1B	H700	NH660L	M700LS/BH
SH7TC11B	HF700X	NH660FL	MF700LS/BH
SH7CC22B	HRF700X	NHR660L	
	HR700N		
SH10TC 1B	H1000	NH940L	M1000LS/BH
SH10TC11B	HF1000X	NH940FL	MF1000LS/BH
SH10CC22B	HRF1000X	NHR940L	
	HR1000N		

Fig.1

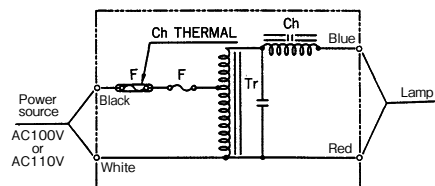


Fig.2

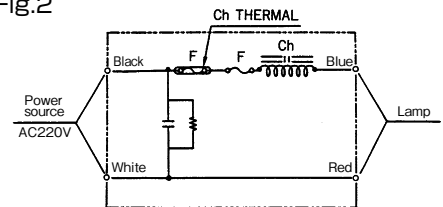


Fig.3

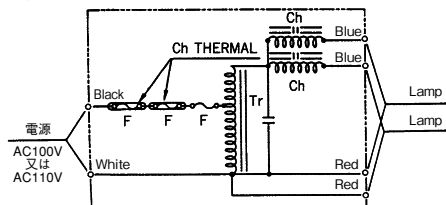
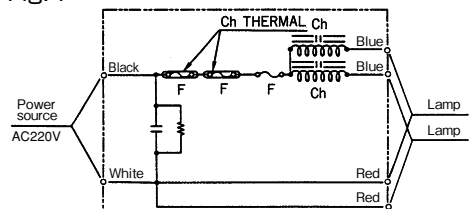


Fig.4



CODE NO. LIST FOR HID BALLAST

Mercury lamp ballast

Model	Voltage	Frequency	(Capacity)				
			(2):200W	(3):300W	(4):400W	(7):700W	(10):1000W
SH()-RC1B(A)	AC100V	60Hz	A1490001	A14090005	A14090007	A14090011	A14090021
SH()-RC2B(A)	AC220V	60Hz	A14090002	A14090006	A14090009	A14090013	A14090023
SH()-RC1B(A)-C	AC100V	60Hz	A14900011	A140900051	A14090008	A14090012	A14090022
SH()-RC2B(A)-C	AC220V	60Hz	A140900021	A140900062	A14090010	A14090014	A14090024
SWH()-RC1B(A)	AC100V	60Hz	A140900010	A14090018	A14090037	A14090041	A14090033
SWH()-RC2B(A)	AC220V	60Hz	A140900020	A140900180	A14090039	A14090043	A14090035
SWH()-RC1B(A)-C	AC100V	60Hz	A140900012	A140900182	A14090038	A14090042	A14090034
SWH()-RC2B(A)-C	AC220V	60Hz	A140900022	A140900183	A14090040	A14090044	A14090036

High pressure sodium lamp ballast

Model	Voltage	Frequency	(Capacity)				
			(2):200W	(3):300W	(4):400W	(7):700W	(10):1000W
SNH()-TCP1B(A)	AC100V	60Hz	—	—	A14100009	A14100012	A1410005
SNH()-CCP2B(A)	AC220V	60Hz	—	—	A14100007	A14100011	A14100006
SNH()-CCP1B(A)-C	AC100V	60Hz	—	—	A14100010	A141000123	A14100051
SNH()-TCP2B(A)-C	AC220V	60Hz	—	—	A14100008	A141000110	A14100061
SWNH()-TCP1B(A)	AC100V	60Hz	—	—	A14100001	—	—
SWNH()-CCP2B(A)	AC220V	60Hz	—	—	A14100002	—	—
SWNH()-TCP1B(A)-C	AC100V	60Hz	—	—	A141000011	—	—
SWNH()-CCP2B(A)-C	AC220V	60Hz	—	—	A141000021	—	—

High power factor type mercury lamp ballast (High pressure sodium lamp · Metal halide lamp)

Model	Voltage	Frequency	(Capacity)				
			(2):200W	(3):300W	(4):400W	(7):700W	(10):1000W
SH()-TC1B(A)	AC100V	60Hz	—	—	A14090046	A14090052	A14090058
SH()-TC1B(A)	AC110V	60Hz	—	—	A14090048	A14090054	A14090060
SH()-CC22B(A)	AC220V	60Hz	—	—	A14090050	A14090056	A14090062
SH()-TC1B(A)-C	AC100V	60Hz	—	—	A14090047	A14090053	A14090059
SH()-TC1B(A)-C	AC110V	60Hz	—	—	A14090049	A14090055	A14090061
SH()-CC22B(A)-C	AC220V	60Hz	—	—	A14090051	A14090057	A14090063
SWH()-TC1B(A)	AC100V	60Hz	—	—	A14090064	A14090072	—
SWH()-TC1B(A)	AC110V	60Hz	—	—	A14090066	A14090074	—
SWH()-CC22B(A)	AC220V	60Hz	—	—	A14090068	A14090076	—
SWH()-TC1B(A)-C	AC100V	60Hz	—	—	A14090065	A14090073	—
SWH()-TC1B(A)-C	AC110V	60Hz	—	—	A14090067	A14090075	—
SWH()-CC22B(A)-C	AC220V	60Hz	—	—	A14090069	A14090077	—