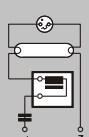


# Lamp Table – Discharge Lamps

## High-pressure sodium lamps (HS lamps) 35 to 250 W

Lamps					Operating devices				
Output W	Manu- facturer	Designation	Current A	Base	Superimposed ignition system		Pulse ignition system		Capacitor at 50 Hz
					Ignitors Type	Ballasts Type	Ignitors Type	Ballasts Type	
35	Philips	SDW-T 35	0.48	PG12-1	Ignitor/stabiliser	NaH 35II	PZ 1000	NaHJ 35PZ NaHJ 35PZT	6 µF
	Sylvania	SHP 35	0.49	E27					
	Radium	RNPE 35	0.50	E27					
50	Philips	SON-T Plus 50	0.75	E27	Z 70	NaH 50, NaHJ 70/50	PZ 1000	—	8 µF
	GE	LU 50	0.76	E27					
	Narva	NA 50	0.76	E27					
	Philips	SON 50	0.76	E27					
	Sylvania	SHP 50* <sup>1</sup>	0.76	E27					
	Osram	NAV 50	0.77	E27					
	Radium	RNP 50	0.77	E27					
Philips	SDWT 50	0.76	PG12-1	Ignitor/stabiliser	NaH 50II	—	—		
70	Philips	SON-T Plus 70	0.97	E27	Z 70	NaH 70, NaHJ 70, NaHJ 70/50, NaHJ 100/70, VNaHJ 70 (incl. ignitor)	PZ 1000	NaHJ 70PZ NaHJ 70PZT	12 µF
	GE	LU 70	0.98	E27					
	Philips	SON 70	0.98	E27					
	Sylvania	SHP 70* <sup>1</sup>	0.98	E27					
	Narva	NA 70	1.00	E27					
	Osram	NAV 70	1.00	E27, RX7s					
Radium	RNP 70	1.00	E27						
100	GE	LU 100	1.20	E40	Z 250, Z 400	NaHJ 100, NaHJ 100/70, NaHJ 150/100, VNaHJ 100 (incl. ignitor)	PZ 1000	NaHJ 100PZ NaHJ 100PZT	12 µF
	Narva	NA 100	1.20	E40					
	Osram	NAV 100	1.20	E40					
	Philips	SON 100	1.20	E40					
	Radium	RNP 100	1.20	E40					
	Sylvania	SHP 100* <sup>1</sup>	1.20	E27, E40					
	Philips	SDWT 100	1.30	PG12-1					
150	GE	LU 150	1.80	E40	Z 250, Z 400	NaHJ 150, NaHJ 150/100, U-NaH 150/100, VNaHJ 150 (incl. ignitor)	PZ 1000	NaHJ 150PZ NaHJ 150PZT	20 µF
	BLV	HST-DE 150	1.80	Fc2, RX7s					
	Narva	NA 150	1.80	E40					
	Osram	NAV 150	1.80	E40, RX7s					
	Philips	SON 150	1.80	E40					
	Radium	RNP 150	1.80	E40					
	Sylvania	SHP 150* <sup>1</sup>	1.80	E40					
	Sylvania	SHP-S, -TS 150* <sup>1</sup>	1.80	E40					
Philips	SON-Comfort 150	1.82	E40						
250	Philips	SON-Plus 250	2.85	E40	Z 250, Z 400, Z 1000	NaHJ 250, U-NaH 250/150	PZ 1000	NaHJ 250PZ NaHJ 250PZT	32 µF
	Sylvania	SHP,-S,-TS 250* <sup>1</sup>	2.90	E40					
	GE	LU 250	2.95	E40, RX7s					
	BLV	HST-DE 250	3.00	Fc2, RX7s					
	Narva	NA 250	3.00	E40					
	Osram	NAV 250	3.00	E40					
	Osram	NAV T 250 de Luxe	3.00	E40					
	Osram	NAV TS 250	3.00	Fc2					
	Philips	SON 250	3.00	E40					
	Radium	RNP 250	3.00	E40					
	Sylvania	SHP 250* <sup>1</sup>	3.00	E40					
	Philips	SON-T Comfort 250	3.05	E40					

\*<sup>1</sup> lamp manufacturer stipulates the use of a ballast with a temperature switch.

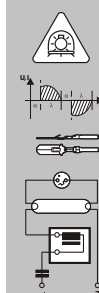


# Lamp Table – Discharge Lamps

## High-pressure sodium lamps (HS lamps) 400 to 1000 W

Lamps					Operating devices				
Output	Manu- facturer	Designation	Current	Base	Superimposed ignition system		Pulse ignition system		Capacitor at 50 Hz
W			A		Igniters Type	Ballasts Type	Igniters Type	Ballasts Type	
400	Philips	SON-T Agro 400	4.13	E40	Z 400, Z 1000	NaHJ 400, U-NaH 400/250	PZ 1000	NaHJ 400PZ NaHJ 400PZT	50 µF
	Philips	SON-Plus 400	4.30	E40					
	GE	LU HO 400/D	4.40	E40					
	BLV	HST-DE 400	4.40	Fc2, RX7s					
	Osram	NAV 400	4.40	E40, Fc2					
	Osram	PLANTA 400	4.40	E40					
	Radium	RNP 400	4.40	E40					
	Sylvania	SHPS 400* <sup>1</sup>	4.40	E40					
	GE	LU 400/D	4.45	E40					
	Narva	NA 400	4.45	E40					
	Philips	SON 400	4.45	E40					
	Sylvania	SHP 400* <sup>1</sup>	4.45	E40					
	GE	LU HO 400/T	4.50	E40, RX7s					
	Philips	SON-T Plus 400	4.50	E40					
	Sylvania	SHP-TS 400* <sup>1</sup>	4.50	E40					
	GE	LU 400/T	4.60	E40					
Philips	SON-T 400	4.60	E40						
Sylvania	SHP,-S,-TS 400* <sup>1</sup>	4.60	E40						
600	Philips	SON-T PIA Green Power 600W/400V	3.62	E40	—	—	PZ 1000/400 V	NaH 600 PZT/ 400 V	25 µF/450 V
	Philips	SON-T 600 Plus	5.80	E40	Z 600, Z 1000	NAH 600	PZ 1000	NaH 600PZ, NaH 600PZT	65 µF
	GE	LU 600 HO	6.20	E40					
	Narva	NAT-S 600	6.20	E40					
	Osram	NAV-T 600	6.20	E40					
	Sylvania	SHP-TS 600* <sup>1</sup>	6.20	E40					
Radium	RNP-T 600	6.20	E40						
1000	Sylvania	SHP-T 1000* <sup>1</sup>	10.0	E40	Z 1000	NaH 1000, NaHJD 1000	PZ 1000	—	100 µF
	GE	LU 1000/D	10.3	E40, RX7s					
	Narva	NA 1000	10.3	E40					
	Osram	NAV 1000	10.3	E40					
	Philips	SON 1000	10.3	E40					
	Radium	RNP 1000	10.3	E40					
	GE	LU 1000/T	10.6	E40					
Philips	SON-T 1000	10.6	E40						

\*<sup>1</sup> lamp manufacturer stipulates the use of a ballast with a temperature switch.



# Lamp Table – Discharge Lamps

## Metal halide lamps (HI lamps) 70 to 250 W

Lamps					Operating devices					
Output W	Manu- facturer	Designation	Current A	Base	Superimposed ignition system		Pulse ignition system		Capacitor at 50 Hz	EB
					Ignitors Type	Ballasts Type	Ignitors Type	Ballasts Type		
70	Venture	MH-DE 70	0.90	G12, RX7s	Z 250, Z 400	NaHJ 70, NaHJ 100/70, VNaHJ 70 (incl. ignitor)	PZ 1000	NaHJ 70PZ, NaHJ 70PZT	12 µF	EHXc 70
	BLV	HIT 70	0.90	G12, RX7s, E27						
	GE	ARC 70	0.95	RX7s						
	Osram	HQI E 70/WDL* <sup>1</sup>	0.95	E27						
	Philips	MHW 70	0.95	RX7s						
	Philips	MHN 70	0.98	RX7s						
	Philips	MHN-T 70	0.99	PG12-2						
	Osram	HQI 70* <sup>1</sup>	1.00	G12, RX7s, E27						
	Radium	HRI 70* <sup>1</sup>	1.00	G12, RX7s, E27						
	Sylvania	HSI 70	1.00	G12, RX7s						
	Sylvania	HSI-MP 75	1.00	E27						
Iwasaki	MT 70 SW	1.00	E27	Z 70	—	—	—	—	—	
100	Osram	HQI 100* <sup>1</sup>	1.10	E27	Z 250, Z 400	NaHJ 100, NaHJ 100/70, NaHJ 150/100  VNaHJ 100 (incl. ignitor)	PZ 1000	NaHJ 100PZ, NaHJ 100PZT	12 µF	—
	Radium	HRI 100* <sup>1</sup>	1.10	E27					16 µF	
	Sylvania	HSI 100	1.10	E27, RX7s					12 µF	
	Venture	HIE 100	1.10	E27					—	
	Sylvania	HSI-MP 100	1.15	E27					—	
150	Venture	MH-DE 150	1.80	G12, RX7s	Z 250, Z 400	NaHJ 150, NaHJ 150/100, VNaHJ 150 (incl. ignitor)	PZ 1000	NaHJ 150PZ, NaHJ 150PZT	20 µF	EHXc 150
	Venture	HIE 150	1.80	E27						
	BLV	HIT 150	1.80	G12, RX7s						
	GE	ARC 150	1.80	G12, RX7s						
	Osram	HQI 150* <sup>1</sup>	1.80	G12, RX7s, E27						
	Philips	MH 150	1.80	RX7s, PGX12-2						
	Radium	HRI 150* <sup>1</sup>	1.80	G12, RX7s						
	Sylvania	HSI-T 150	1.80	G12, RX7s						
	Venture	HIT 150	1.80	G12						
	Sylvania	HSI-M 150	2.00	E27, RX7s						
	Venture	HIE 150	1.90	E40						
Iwasaki	MT 150 SW	1.90	E27	—	—	—	—	—		
250	Sylvania	HSI-T 250	2.10	E40	Z 250, Z 400, Z 1000	NaHJ 250	PZ 1000	NaHJ 250PZ, NaHJ 250PZT	32 µF	—
	Venture	HIT 250/Euro	2.10	E40						
	Narva	NC 250	2.15	E40						
	Philips	HPI 250	2.15	E40						
	GE	ARC 250/T	2.75	E40						
	Osram	HQI 250/WDL UVS	2.80	Fc2						
	GE	MBID 250/F	2.90	E40						
	BLV	HIT 250	3.00	Fc2, E40						
	GE	ARC 250 TD	3.00	Fc2						
	GE	MBID 250/T	3.00	E40						
	Iwasaki	MT 250 SW	3.00	E40						
	Osram	HQI 250	3.00	Fc2, E40						
	Q 250	PZI 1000/1	Q 250	32 µF						
Q 250	Q 250	Q 250	18 µF	—						

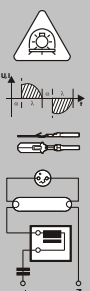
\*<sup>1</sup> lamp manufacturer stipulates the use of a ballast with a temperature switch.



# Lamp Table – Discharge Lamps

## Metal halide lamps (HI lamps) 250 to 3500 W

Lamps					Operating devices									
Output W	Manu- facturer	Designation	Current A	Base	Superimposed ignition system		Pulse ignition system		Capacitor at 50 Hz					
					Ignitors Type	Ballasts Type	Ignitors Type	Ballasts Type						
250	Philips	MHN 250	3.00	Fc2	Z 250, Z 400, Z 1000	NaHJ 250	PZ 1000	NaHJ 250PZ, NaHJ 250PZT	32 µF					
	Radium	HRI 250	3.00	Fc2, E40										
	Sylvania	HSI 250	3.00	Fc2, E40										
	Sylvania	BRITELUX 250	3.00	E40										
	Venture	MH-DE 250	3.00	Fc2										
	Venture	HIE 250/XX/LU	3.10	E40										
400	Venture	HIT 400/Euro	3.25	E40	Z 400	Q 400	PZI 1000/1	Q400	35 µF					
	Sylvania	HS-T 400	3.40	E40			PZ 1000	NaHJ 400PZ, NaHJ 400PZT						
	Philips	HPI 400	3.40	E40			PZI 1000/1	Q400						
	Philips	HPI-TD 400	3.40	Fc2	Z 400, Z 1000	J 400	PZ 1000	NaHJ 400PZ, NaHJ 400PZT	45 µF					
	Narva	HIT 400W/HBU/Euro	3.40	E40										
	GE	ARC 400...	3.50	E40										
	Osram	HQI E 400/N	3.50	E40										
	Osram	HQI T 400/D	3.50	Fc2, E40										
	Osram	HQI E 400/D	3.60	E40										
	Osram	HQI T 400/N	3.60	E40										
	Osram	HQI 400 Blue/Green	3.60	E40										
	Narva	NC 400	3.65	E40										
	BLV	HIT 400	4.00	E40										
	Osram	HQI BT 400/D	4.00	Fc2, E40	Z 400, Z 1000	Q 400	PZI 1000/1	Q 400	35 µF					
	Radium	HRI 400	4.00	E40										
	Osram	HQI T 400/N	4.10	Fc2, E40										
	Radium	HRI-TS 400	4.10	Fc2										
	Osram	HQI E 400/N	4.20	E40										
	Venture	HIE 400/XX/LU	4.20	E40										
	GE	ARC 400/T	4.35	E40										
Sylvania	BRITELUX 400	4.60	E40											
1000	GE	ARC 1000	4.20	E40						Z 2000/400 V		—	—	85 µF
	Sylvania	HSI 1000-T	4.30	E40										
	Narva	NC 1000	4.80	E40										
	Philips	HPI 1000	8.25	E40	Z 1000	Q 1000	PZI 1000/1	Q 1000						
	GE	SPL 1000	9.50	E40										
	Osram	HQI 1000	9.50	E40										
	Radium	HRI 1000	9.50	E40, Fc2										
	Osram	HQI TS 1000	9.60	Cable										
	Radium	HRI-TS 1000	9.60	Cable										
2000	Philips	HPI 2000/400V	8.60	E40	Z 2000/400 V	J 2000, QJ 2000			60 µF					
	Osram	HQI 2000.. Super	8.80	E40					37 µF					
	Radium	HRI-T 2000 W/N	8.80	E40										
	Philips	MHN-TD 2000	9.60	Cable		J 2000				60 µF				
	Osram	HQI-T 2000 D	10.3	E40										
	Radium	HRI 2000	10.3	E40										
	GE	S PL 2000/T	10.3	E40										
	Osram	HQI TS 2000/D/S	11.3	Cable										
	Radium	HRI-TS 2000 W/D/S	11.3	Cable										
	Philips	HPI 2000/230V	16.5	E40										
	Osram	HQI T 2000 N	16.5	E40										
3500	Osram	HQI 3500/D	18.0	E40	Z 3500/400	JD 2000 I	—	—	125 µF					
	Radium	HRI-T 3500/D	18.0	E40					JD 3500G	—	—	100 µF		

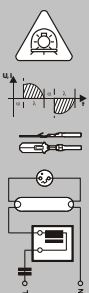


# Lamp Table - Discharge Lamps

## Ceramic discharge tube lamps (C-HI)

Lamps					Operating devices						
Output W	Manu- facturer	Designation	Current A	Base	Superimposed ignition system		Pulse ignition system		Capa- citor at 50 Hz	EB	Note
					Ignitors Type	Ballasts Type	Ignitors Type	Ballasts Type			
20	GE	CMH20TC	0.23	G8.5						EHXc 20	
35	Philips	CDM-R	0.50	E27	Z 250, Z 400	NaHJ 35	PZ 1000	NaHJ 35PZ, NaHJ 35PZT	6 µF	EHXc 35	
	Philips	CDM-T	0.50	G12							
	Osram	HCHT	0.50	G12							
	Osram	HCHC	0.50	G8.5							
	Radium	RCIT	0.50	G12							
	Radium	RCITC	0.50	G8.5							
	GE	CMH35TC	0.50	G8.5							
	GE	CMH35T	0.50	G12							
	GE	CMH35PAR20	0.50	E27							
70	GE	CMH70T	0.96	G12	Z 250, Z 400	NaHJ 70	PZ 1000	NaHJ 70PZ, NaHJ 70PZT	12 µF	EHXc 70	
	GE	CMH70TD	0.96	Rx7s							
	Philips	CDM-R	0.97	E27							
	Philips	CDM-T	0.98	G12							
	GE	CMH70TC	0.98	G8.5							
	GE	CMH70PAR30	0.98	E27							
	GE	CMH70E	0.98	E27							
	GE	CMH70TT	0.98	E27							
	Philips	CDM-TD	1.00	Rx7s							
	Philips	CDM-TP	1.00	PG12-2							
	Philips	CDM-TT/-ET	1.00	E27	Z 70						Exchange with HS lamps 70 W
	Osram	HCHT	1.00	G12							
	Osram	HCHTS	1.00	Rx7s							
	Osram	HIC-TC	1.00	G8.5							
	Radium	RCIT	1.00	G12							
	Radium	RCITS	1.00	Rx7s							
	Radium	RCITC	1.00	G8.5							
	Sylvania	CM-T	1.00	G12							
	BLV	C-HIT-DE	1.00	Rx7s							
	100	GE	CMH100E	1.10	E27	Z 250, Z 400	NaHJ 100	PZ 1000	NaHJ 100PZ, NaHJ 100PZT	12 µF	
150	Philips	CDM-T	1.80	G12	Z 250, Z 400	NaHJ 150	PZ 1000	NaHJ 150PZ, NaHJ 150PZT	20 µF	EHXc 150	
	Philips	CDM-TD	1.80	Rx7s							
	Philips	CDM-TP	1.80	PGX12-2							
	Philips	CDM-TT/-ET	1.80	E40							
	Osram	HCHT	1.80	G12							
	Osram	HCHTS	1.80	Rx7s							
	Radium	RCIT	1.80	G12							
	Radium	RCITS	1.80	Rx7s							
	GE	CMH150T	1.80	G12							
	GE	CMH150TD	1.80	Rx7s							
	GE	CMH150TT	1.80	E40							
250	GE	CMH250P	2.70	E40	Z 250, Z 400	NaHJ 250	PZ 1000	NaHJ 250PZ, NaHJ 250PZT	32 µF	—	
	GE	CMH250E	2.70	E40							
	Osram	HCHT 250	2.80	E40							
	Osram	HCHC 250	2.90	E40							
	Osram	HCHTS 250	2.90	Fc2							

Technical details – components for discharge lamps

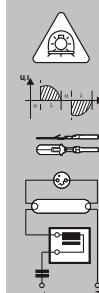


# Lamp Table – Discharge Lamps

## Mercury vapour lamps (HM lamps)

Lamps					Operating devices	
Output	Manufacturer	Designation	Current	Base	Ballasts (ignitor not required)	Capacitor at 50 Hz
W			A		Type	
50	GE	H 50	0.60	E27, B22	Q 50, Q 80/50	7 µF
	Osram	HQL 50	0.60	E27		
	Radium	HRL 50	0.60	E27		
	Narva	NF 50	0.61	E27		
	Philips	HPL 50	0.61	E27		
	Sylvania	HSL 50	0.61	E27		
80	GE	H 80	0.80	E27, B22d-3*	Q 80, Q 80/50, Q 125/80,	8 µF
	Narva	NF 80	0.80	E27		
	Osram	HQL 80	0.80	E27		
	Philips	HPL 80	0.80	E27		
	Radium	HRL 80	0.80	E27		
	Sylvania	HSL 80	0.80	E27		
125	GE	H 125	1.15	E27, B22d-3*	Q 125, Q 125/80	10 µF
	Narva	NF 125	1.15	E27		
	Osram	HQL 125	1.15	E27, E40		
	Philips	HPL 125	1.15	E27		
	Radium	HRL 125	1.15	E27		
	Sylvania	HSL 125	1.15	E27, B22d-3*		
250	Narva	NF 250	2.13	E40	Q 250, U-Q 250/150	18 µF
	Philips	HPL 250	2.13	E40		
	Sylvania	HSL 250	2.13	E40		
	GE	H 250	2.15	E40		
	Osram	HQL 250	2.15	E40		
	Radium	HRL 250	2.15	E40		
400	GE	H 400	3.25	E40	Q 400, U-Q 400/250	25 µF
	Narva	NF 400	3.25	E40		
	Osram	HQL 400	3.25	E40		
	Philips	HPL 400	3.25	E40		
	Radium	HRL 400	3.25	E40		
	Sylvania	HSL 400	3.25	E40		
700	Narva	NF 700	5.40	E40	Q 700	40 µF
	Osram	HQL 700	5.40	E40		
	Philips	HPL 700	5.40	E40		
	Radium	HRL 700	5.40	E40		
	Sylvania	HSL 700	5.40	E40		
	GE	H 700	5.45	E40		
1000	GE	H 1000	7.50	E40	Q 1000	60 µF
	Narva	NF 1000	7.50	E40		
	Osram	HQL 1000	7.50	E40		
	Philips	HPL 1000	7.50	E40		
	Radium	HRL 1000	7.50	E40		
	Sylvania	HSL 1000	7.50	E40		

\*Range does not include VS lampholders for base B22d-3.



# Lamp Table – Discharge Lamps

## Low-pressure sodium lamps (LS lamps)

Lamps					Operating devices		
Output	Manufacturer	Designation	Current	Base*	Superimposed ignition system		Capacitor at 50 Hz
W			A		Ignitors Type	Ballasts Type	
35	GE	SOX 35	0.60	BY22d	not required in connection with Na 85G	Na 85G	20 µF
	Osram	SOX 35	0.60	BY22d			
	Radium	RNA/SOX 35	0.60	BY22d			
	Sylvania	SLP 35	0.60	BY22d			
	Philips	SOX 35	0.62	BY22d			
55	Philips	SOX 55	0.59	BY22d	not required in connection with Na 85G	Na 85G	20 µF
	Osram	SOX 55	0.59	BY22d			
	Sylvania	SLP 55	0.59	BY22d			
	Radium	RNA/SOX 55	0.59	BY22d			
	GE	SOX 55	0.60	BY22d			
90	GE	SOX 90	0.90	BY22d	not required	Na 140G	26 µF
	Philips	SOX 90	0.90	BY22d			
	Osram	SOX 90	0.94	BY22d			
	Radium	RNA/SOX 90	0.94	BY22d			
	Sylvania	SLP 90	0.94	BY22d			
135	GE	SOX 135	0.90	BY22d	not required	Na 200G	45 µF
	Philips	SOX 135	0.90	BY22d			
	Osram	SOX 135	0.95	BY22d			
	Radium	RNA/SOX 135	0.95	BY22d			
	Sylvania	SLP 135	0.95	BY22d			
180	GE	SOX 180	0.90	BY22d	not required	Na 200G	40 µF
	Osram	SOX 180	0.90	BY22d			
	Philips	SOX 180	0.90	BY22d			
	Radium	RNA/SOX 180	0.90	BY22d			
	Sylvania	SLP 180	0.91	BY22d			

\*Range does not include VS lampholders for base BY22d.

## Glossary

### Leak current

Current of an operating device or a luminaire that is discharged via the potential compensation conductor (earth conductor)

### Analogue interface 1–10 V

Bipolar interface of dimmable operating devices with a built-in source of constant current

### CE mark

European regulation governing all products that are introduced to the market. Products must comply with the respective EC directives

### CELMA

Association of European component and luminaire manufacturers (Committee of E.E.C. Luminaires Components Manufacturers Associations)

### CENELEC

European committee for electronic standardisation (Comité Européen de Normalisation Electrotechnique)

### CISPR

International special commission for radio interference (Comité International Spécial des Perturbations Radioélectriques)

