

Wärtsilä JOVYREC KG007 / PL / SMARTLINE

PRODUCT LEAFLET



Wärtsilä JOVYATLAS produces lamp rectifiers in different technologies and optimised for special applications and lamp types. The various lamp rectifiers from Wärtsilä JOVYATLAS are used in cinemas, laboratories or in industrial, modern production facilities or serve to supply special plasma torches with the necessary electrical power.

LAMP RECTIFIER Wärtsilä JOVYREC KG007

Lamp rectifier of the type KG 007 are designed in 'trafoductor' (transformer & transductor) technology. Via a newly developed current control card we achieve with this device highly precise controller characteristics and an extreme low lamp current ripple. The lamp current in the systems of the type series KG007 can be set via potentiometer. The applied 'trafoductor' technology is especially robust and disruption insensitive.

LAMP RECTIFIER Wärtsilä JOVYREC PL

Lamp rectifiers of the Wärtsilä JOVYREC PL series were developed for xenon- or mercury vapour discharge lamps with a capacity of approx. 6 to 30 kW. Depending on the type the lamp is operated with constant power or constant current. The lamp rectifiers dispose of a luminous flux control especially developed for the behaviour of discharge

lamps, controlling the natural luminous flux fluctuations of the lamp down to approx. 0,1 %. This leads to a significantly improved light flux stability of the discharge lamp. It also preserves the life cycle of the lamp considerably.

LAMP RECTIFIER Wärtsilä JOVYREC SMARTLINE

Lamp rectifiers of this type serve the supply of xenon- and mercury vapour discharge lamps with a capacity of up to 150/200 W. The lamp rectifier SMARTLINE is equipped with characteristics switching enabling to adjust to different lamp types. Up to eight operating point adjustments for different lamp types can be integrated. That explains why so many different xenon and mercury vapour discharge lamps can be operated with one device only. The ignition of the connected lamp takes place via lamp rectifier. After the effected ignition the connected lamp can be gently operated according to the respective operating point adjustment.

Fig.1-3 Lamp rectifiers made by Wärtsilä JOVYATLAS

Wärtsilä JOVYREC KG007



Wärtsilä JOVYREC PL



Wärtsilä JOVYREC SMARTLINE



TECHNICAL DATA - Wärtsilä JOVYREC KGO07

Input	Voltage	3 x 400 V / 230 V ± 10%
	Frequency	45-65 Hz
	Nominal current	ca. 3 x 8 A
	Mains fuse internal	3 x 16 A tr.
	Recommended pre-fuse	3 x 25 A tr.
Output	Booster voltage	120 - 130 V
	Burn voltage	20 - 36 V
	Lamp current controllable	max. 100 A 75-100% I _{Nenn}
	Ripple	≤ 5 % pp
	Output current tolerance	± 1 %
Connectable lamps (configurable via jumper)	XBO 1600	Jumper 2
	XBO 2000	Jumper 3
	XBO 2500	Jumper 4
	XBO 3000	Jumper 5
Mode of operation	permanent operation	
Protection class	IP 20	

TECHNICAL DATA - Wärtsilä JOVYREC PL

Input	Voltage	3 x 400 V / 230 V ± 10%
	Frequency	45 - 65 Hz
Output	Booster voltage	100 V
	Burn voltage	max. 60 V
	Lamp current	max. 640 A
Mode of operation	permanent operation	
Protection class	IP 20	

TECHNICAL DATA - Wärtsilä JOVYREC SMARTLINE

Input	Voltage	230 V ± 15 %	
	Frequency	50 Hz ± 5%	
Output	Burn voltage	max. 30 V	
	Lamp current	max.8,5 A	
	Pulsation	max. 1,5% (typ. < 0,35 %)	
	Booster voltage	140 V ± 5 %	
	Ignition voltage max	15 kV (Impulse)	
Types of lamps (further lamp types on request)	HBO 50 W/3, Osram	50 W / 2,3 A / 22 V	operating point Q50W-2,3A
	HBO 100 W/1, Osram	100 W / 5,0 A / 20 V	operating point Q100W-5A
	HBO 100 W/2, Osram	100 W / 5,0 A / 20 V	operating point Q100W-5A
	CS 50 W/3, Phillips	50 W / 2,3 A / 20 V	operating point Q50W-2,3A
	CS 100 W/2, Phillips	100 W / 5,0 A / 20 V	operating point Q100W-5A
	XBO 75 W/1, Osram	75 W / 5,4 A / 14 V	operating point X75W-5,4A
	XBO 75 W/, Osram	75 W / 5,4 A / 14 V	operating point X75W-5,4A
	XBO 100 W OFR, Osram	100 W / 6,7 A / 15 V	operating point X100W-6,7A
	XBO 150 W/1, Osram	150 W / 7,5 A / 20 V	operating point X150W-7,5A
	XBO 150 W/S, Osram	150 W / 7,5 A / 20 V	operating point X150W-7,5A
	XBO 150 W/GS, Osram	150 W / 8,5 A / 17,5 V	operating point X150W-8,5A
	CSX 75 W OF, Phillips	75 W / 5,4 A / 13,5 V	operating point X75W-5,4A
	CSX 150 W AS, Phillips	150 W / 8,5 A / 17,5 V	operating point X150W-8,5A

CHARACTERISTICS SWITCHING

allows the operation of different types of lamps with a lamp rectifier

LAMP RECTIFIER WITH TRAFODUCT TECHNOLOGY

assures disruption insensitivity

EXTREME PRECISE LUMINOUS FLUX CONTROL PROPERTIES

assures improved luminous flux stability and longer lamp life

LOW LAMP CURRENT RIPPLE