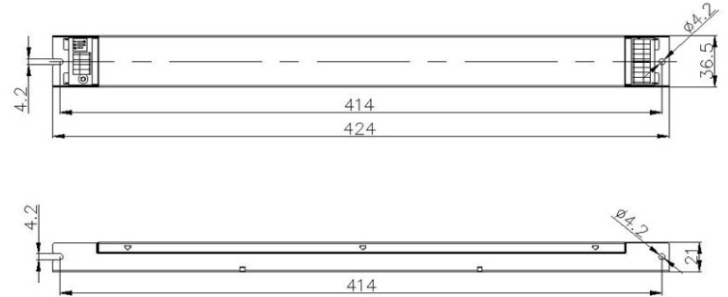


## Dimmable T5 ballast Model: HB0235-1, 2x14/21/28/35w



The target dimmed light output level and power consumption can be pre-set by choosing the target combination of the encoded programmed switch-

●:ON ○:OFF



### Recommendation

	1	2	3	% of full power
I	○	○	○	100%
II	●	○	○	50%
III	●	●	○	25%
IV	●	●	●	10%

	Running on 2x35w Lamp				Running on 2x28w lamp			
	100%	50%	25%	10%	100%	50%	25%	10%
Input voltage	220Vac-240Vac or 170Vdc-270Vdc				220Vac-240Vac or 170Vdc-270Vdc			
Frequency	50/60Hz or 0Hz				50/60Hz or 0Hz			
Empty load power consumption	<0.8W				<0.8W			
Input current	<0.36A	<0.23A	<0.16A	<0.1A	<0.27A	<0.17A	<0.13A	<0.065A
Power factor	≥0.99	≥0.98	≥0.97	≥0.85	≥0.99	≥0.98	≥0.97	≥0.85
Output wattage	68W±5%	34W±6%	17W±8%	2.8W±10%	54W±5%	27W±6%	14W±8%	2.4W±10%
Lamp voltage	205±10V	255±15V	275±20V	275±30V	164±10V	204±15V	230±20V	230±30V
Lamp current	164mA±5%	63mA±6%	30mA±8%	5mA±10%	164mA±5%	63mA±6%	30mA±8%	5mA±10%
Ta.	-20-50°C	-20-50°C	-20-50°C	10-50°C	-20-50°C	-20-50°C	-20-50°C	10-50°C
Current crest factor	<1.5				<1.5			
Preheating time	1.2S				1.2S			
Humidity	30-95				30-95			
EMC directive	EN55015(version 2007) EN61547 (GB17625.1-2007)				EN55015 (version 2007) EN61547 (GB17625.1-2007)			
Safety directive	EN61347-1:2003 EN61347-2-3 GB19510.1-2004 GB19510.4-2005				EN61347-1:2003 EN61347-2-3 GB19510.1-2004 GB19510.4-2005			
Abnormal protection	Lamp change, lamp failure, end of life				Lamp change, lamp failure, end of life			
Ingress protection	IP20				IP20			
Tc	75°C				75°C			
Energy efficiency index	EEI=A1				EEI=A1			
Life span	50000h				50000h			
Insulation class	I				I			

**Model: HB0235-1**

	Running on 2x21w lamp				Running on 2x14w lamp			
	100%	50%	25%	10%	100%	50%	25%	10%
Input voltage	220Vac-240Vac or 170Vdc-270Vdc				220Vac-240Vac or 170Vdc-270Vdc			
Frequency	50/60Hz or 0Hz				50/60Hz or 0Hz			
Empty load power consumption	<0.8W				<0.8W			
Input current	<0.22A	<0.15A	<0.1A	<0.06A	<0.1A	<0.09A	<0.08A	<0.06A
Power factor	≥0.99	≥0.98	≥0.97	≥0.85	≥0.98	≥0.97	≥0.96	≥0.85
Output wattage	40W±5%	20W±6%	10W±8%	2W±10%	27W±5%	13.5W±6%	6.5W±6%	1.2W±10%
Lamp voltage	124±10V	144±15V	155±20V	155±30V	85±10V	92±10V	100±20V	110±20V
Lamp current	164mA±5%	63mA±6%	30mA±8%	5mA±10%	164mA±5%	63mA±6%	30mA±8%	5mA±10%
Ta.	-20-50°C	-20-50°C	-20-50°C	10-50°C	-20-50°C	-20-50°C	-20-50°C	10-50°C
Current crest factor	<1.5				<1.5			
Preheating time	1.2S				1.2S			
Humidity	30-95				30-95			
EMC directive	EN55015 (version 2007) EN61547 (GB17625.1-2007)				EN55015 (version 2007) EN61547 (GB17625.1-2007)			
Safety directive	EN61347-1:2008 EN61347-2-3 GB19510.1-2004 GB19510.4-2005				EN61347-1:2008 EN61347-2-3 GB19510.1-2004 GB19510.4-2005			
Abnormal protection	Lamp change, lamp failure, end of life				Lamp change, lamp failure, end of life			
Ingress protection	IP20				IP20			
Tc	75°C				75°C			
Energy efficiency index	EEI=A1				EEI=A1			
Life span	50000h				50000h			
Insulation class	I				I			

\*defined lamp warm start 1.2 s

\*constant light output independent of fluctuations in mains voltage

\*average service life = 50,000 h

\*AC voltage range 170-270 V

\*power factor > 0.95

\*operating frequency ≥ 42 kHz

\*wide operating temperature range from -20°C to +50°C

\*safe switch off of defective lamps

\*automatic re-start after lamp change.

\*for luminaires with or and in acc. With EN 60598 / VDE 0710 und VDE 0711

\*suitable for luminaires with safety class I and class II

\*Ingress protection IP 20

\*thermal protection according to EN 61347-2-3 C5e