ROTEC

DATA SHEET

Made in Germany

EBM 801 AC

Electronic Control Gear for AC Lamps 350 – 850 W

Features

- Power supply for metal halide AC-lamps
- Lamp power of 400 W, 500 W, 575 W, 600 W, 650 W, 700 W, 800 W, 850 W
- Output power customer selectable by 16-step multimode switch with new redesigned type
- integrated lamp lifetime counter -only as option-
- Input voltage range from 100 V AC to 240 V AC, power factor corrected line input
- Special newly designed anti aging and anti abnormal arc control circuit for high optical reliability over extended lifetime
- Output short circuit protected
- Thermal shut off at 90°C
- Shut off function for end of life and lamp fail parameter
- Less than 1% rms light flicker at all frequencies
- Auxiliary regulated 24 V / 0.1 A output for fan drive, (only available when lamp lit.)

Please read this information carefully, before installing and operating the power supply!

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ELECTRICAL DATA · All values are valid at 25 ± 5°C, unless otherwise noted

INPUT DATA					
Nominal Operation	**Symbol**	**Unit**	**Nominal**	**Tolerances**	**Remarks**
Input voltage AC-Line	U	V AC	100 - 240	90 - 264	
System wattage	PLI	W	400 - 950		Depends on select
Input current	I_{LI}	A		2 - 10	Depends on select
Line frequency	Fin	Hz	50/60	47 - 63	
Line power factor	PFC	1	1.0	0.93 - 1.0	
Other Operation Data					
System wattage during ignition	P_{lign}	W	25	< 30	
System wattage standbyoperation	P_{LIStby}	W	1	0.5 - 2.0	
OUTPUT DATA					
Ignition	**Symbol**	**Unit**	**Nominal**	**Tolerances**	**Remarks**
Ignition voltage	U_{ign}	kV_{peak}	±		No built-in ignitor
Ignition time	$t_{ign\ on}$	sec.	1	0.4 3.0	Dynamical
Run-up Operation					
Run-up current	I_{max}	A	Up to 11 7.5	± 10%	Inside specified lamp- parameter 0 to 1 ms
In rush current	I_{max}	A	30	20 - 30	Attempts
Nominal Operation					
Lamp voltage	U_{La}	V	35 to 140	± 5%	Depends on lamp select
Lamp wattage	P_{La}	W	400, 500, 575, 600, 650, 700, 800, 850	± 2%	Selectable by type (EBM 801 xx by switch)
Lamp current	I_{La}	A	3 - 12		Depend on select
End-Of Life-Cut off voltage	$U_{La,\ max}$	V	142.5	± 2V	
End-Of-Life-Cut off time	$t_{EOL\text{-}Off}$	s	< 0.2		
HF-Ripple of output power	$\Delta_{PLa,rip}$ / P_{La}	%	< 1 p-p		Ul = 60 V or more
50 Hz - 60 Hz ripple		%	< 4 p-p		Ul = 60 V or more
Shift in output power with shift in input voltage	ΔP_{La} / ΔU_{LI}	1		< 0.005	Within nominal values
Open circuit voltage	U_{ocv}	V	220	< 250	

GEOMETRY AND WEIGHT					
	Symbol	**Unit**	**Nominal**	**Tolerances**	**Remarks**
Length x width x height	L x W x H	mm	175 x 100 x 38,5		
Housing					Open frame Al- L-profile
Weight	W_B	kg	0.75		With internal fan

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