



DATA SHEET

EBM 801 DC

Electronic Control Gear for DC Lamps 350 – 850 W

Features

- Power supply for metal halide AC-lamps or DC-lamps
- Lamp power range of 350 W, 400 W, 500 W, 575 W, 600 W, 700 W, 800, 850W
- Output power customer selectable by 16-step multimode switch
- integrated lamp lifetime counter -as option-
- Input voltage range from 90 V AC to 264 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
- μ P controlled, digital power management with high output stability over lamp 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.)
- optoisolated control interface with: lamp lit OK output, boost input, analog dim input (photofeedback), remote on-off input (invertable by solderbridge), non optoisolated direct uP-control
- Thermal design with integrated fans or for external cooling as option
- Flexible Design: new lamps and functions adaptable only by software

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

EBM 801 DC

ELECTRICAL DATA · All values are valid at $25 \pm 5^\circ\text{C}$, unless otherwise noted

INPUT DATA					
Nominal Operation	Symbol	Unit	Nominal	Tolerances	Remarks
Input voltage AC-Line	U	V AC	100 - 240	90 - 264	100 V min @ 800 W
Input voltage DC-Line	U	V DC	100 - 300		
System wattage	P_{Li}	W	350 - 850	90 - 340	Depends on select
Input current	I_{Li}	A			Depends on select
Line frequency	f_{in}	Hz	50/60	2 - 10	
Line Power factor	PFC	1	1.0	47 - 63	

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

Nominal Operation					
	Symbol	Unit	Nominal	Tolerances	Remarks
Lamp voltage	U_{La}	V	35 to 140	± 5%	Depends on lamp select
Lamp wattage	P_{La}	W	350, 400, 500, 575, 600, 700, 800, 850	± 2%	Selectable by type (EBM 801 xx by switch)
Lamp current	I_{La}	A	3 - 12		Depend on select

LIFETIME DATA · All values for $U_u = 230\text{ V}_{rms}$, Temperature at test point = 70°C					
	Symbol	Unit	Nominal	Tolerances	Remarks
Ballast lifetime	t_{Life}	H	25.000	> 25.000	Acc. to MIL HDBK for nominal operation

COOLING METHOD					
	Symbol	Unit	Nominal	Tolerances	Remarks
	airflow	m/s	Built-in fan's or 2m/s from external fan		Must be checked in actual application

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

For detailed information please contact ralf@rotec-gmbh.com or info@rotec-gmbh.com

Technical modifications and errors excepted.