

DATA SHEET



ECG 2000 AC

Electronic Control Gear for AC Lamps 1200 – 2000W

Features

- Power Supply for Metal Halide AC-Lamps
- Lamp power range of 800W – 2000W
- Output power pre-adjusted by factory
- Input voltage range from 95V AC to 2645 AC, power factor corrected line input ($>0,98$)
- μ P controlled, Digital Power Management with high output stability over lamp lifetime
- Output short circuit protected
- Thermal shut off at 85°C
- Shut off function for end of life and lamp fail parameter
- Less than 3% output ripple
- Auxiliary regulated 24V/ 0.2A output for fan drive, (floating)
- opto-isolated control interface with: lamp lit OK output, PWM dimmer input, analog dimmer input (non isolated), remote on-off input, non opto-isolated direct uP-control
- Thermal design for external fans or for external heat sink as option
- Flexible Design: new lamps and functions adaptable only by software

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

ECG 2000 AC

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	95 - 265		
System wattage	P_{Li}	W	800 - 2000		
Input current	I_{Li}	A	Dep. on P_{out}		
Line frequency	f_{in}	Hz	47 - 63		
Line power factor	PFC	1	>0.98		

LAMP OUTPUT DATA					
Ignition	Symbol	Unit	Nominal	Tolerances	Remarks
Ignition voltage	U_{ign}	kV _{peak}	±		External ignitor
Ignition time automatic restart counter	$t_{ign on}$	sec.	1 5	0.4 – 3.0 --	dynamic attempts

Nominal Operation					
	Symbol	Unit	Nominal	Tolerances	Remarks
Lamp voltage	U_{La}	V	80 to 160	± 5%	Depends on lamp select
Lamp wattage	P_{La}	W	800 - 2000		Selectable by lamp type
Lamp current	I_{La}	A	3 - 18		Depends on select

LIFETIME DATA · All values for $U_u = 230_{V_{rms}}$, Temperature at test point = 70°C					
Ignition	Symbol	Unit	Nominal	Tolerances	Remarks
Ballast lifetime	t_{life}	h	25.000	> 25.000	Acc. To MIL HDBK for nominal operation

GEOMETRY AND WEIGHT					
Ignition	Symbol	Unit	Nominal	Tolerances	Remarks
Length	l	mm	250		See dwg.
Width	w	mm	104		See dwg.
Height	h	mm	75 115		w/o heat sink with heat sink
Housing					Open frame Al
Weight	W_B	kg	1,8		w/o heatsink

COOLING METHOD				
Ignition	Symbol airflow	Unit	Nominal	Remarks
		m/s	2 from external fan	Must be checked in actual application

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