Power Supply for Deuterium Lamps Model No. MD310/MD330

 These power supplies are designed for 30W Deuterium Lamps with the following features:
☐ High stability with high performance current control
☐ Compact size by using switching type power supply
☐ Workable with DC24V
☐ Insulated input for lighting start and output for lighting monitor are available, and those
can be easily connected with Logic IC.

2. Characteristics

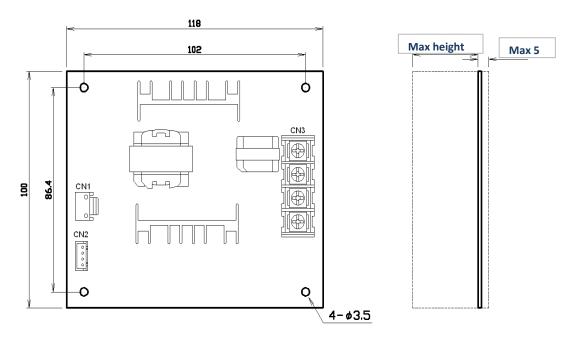
Based on 30 minutes after lighting lamp at the temperature of 25°C±1°C.

		Requirement		
	Innut		Input voltage (DC)	24±2.4V
Input			Input power during lighting	Max. 50W
Output			Output voltage before lighting	Typ 200V
			Output voltage during lighting	Typ 80V
			Output current	300±15mA
			Fluctuation of current	Тур 0.005%
			Drift of current	Typ ±0.02%/h
			Pre-heating	25±5 sec.
			Trigger voltage	Min. 600∨
Filament	For 2.5V MD310	Pre-heating	Voltage	2.5±0.2V
			Current	Typ 4A
		In operation	Voltage	1±0.1V
			Current	Typ 1.8A
	For 10V MD330	Pre-heating	Voltage	10±0.5V
			Current	Typ 1.2A
		In operation	Voltage	7±0.4V
			Current	Typ 1A
Cooling m	ethod	Air cooling		
Operating	ambient te	0~40°C		
	mbient tem	−10 ~ 60°C		
Operating	& storage	Max 80%Rh		
Weight		250g		

3. Appearance and External dimensions



Appearane of power supply for Deuterium Lamps



External dimensions

4. Pin assignment of connectors

Connectors		Pin No. Function	
CN1	Power	1	DC24V (note 1)
CNI	Power	2	GND
CN2		1	Lamp's ON/OFF control (note 2)
	Input & Output	2	GND for above
		3	Lighting status in operation (note 3)
		4	GND for above
CN3	Lamp Output	1	Anode
		2	Shield (Sub-anode)
		3	Filament
		4	Filament & Cathode

- note 1) Due to rush current, please use min. 70W power
- note 2) About 10mA current is running at 5V operating voltage
- note 3) 390Ω of open collector output

* These specifications are based on the data as of July 2012 and subject to change without notice.

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