Power Supply for Deuterium Lamps Model No. MD310/MD330

l. 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

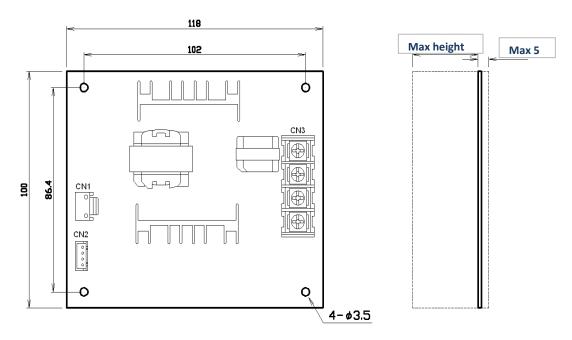
Based on 30 minutes after lighting lamp at the temperature of 25°C±1°C.

		Requirement			
Input			Input voltage (DC)	24±2.4V	
			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∨	
	For 2.5V MD310	Pre-heating	Voltage	2.5±0.2V	
			Current	Typ 4A	
		In operation	Voltage	1±0.1V	
Filament			Current	Typ 1.8A	
Filallienic		Pre-heating	Voltage	10±0.5V	
	For 10V		Current	Typ 1.2A	
	MD330	MD330	Voltage	7±0.4V	
		In operation	Current	Typ 1A	
Cooling m			Air cooling		
Operating	ambient te	0~40°C			
Storage a	nbient 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)
	Power	2	GND
CN2		1	Lamp's ON/OFF control (note 2)
	N2 Input & Output	2	GND for above
		3	Lighting status in operation (note 3)
		4	GND for above
CN3		1	Anode
	Lamp	2	Shield (Sub-anode)
	Output	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.

TASHIKA CO., LTD.

1-12, Kaiyo-cho, Ashiya, 659-0035, JAPAN

Tel: + 81-797-23-9035 Fax: + 81-797-23-2105

e-mail: sales@tashika.co.jp URL: www.tashika.co.jp