

PE300B-10FM

300 Watt Cermax[®] f/ 1.0 Module



gnition Requirements	Min	Nominal	Max	Comments
	00		05	Nette success 000// few standards and state
1.1 Peak Ignition Voltage at Lamp Terminals (kV		-	35	Not to exceed 36kV for electrical safety
12 Ignition Pulse Width FWHM at Lamp Terminals (ns		100	150	
1.3 Recommended Boost Voltage at Lamp Terminals (Volts		210	240	
1.4 Boost Current at Lamp Terminals (Amps	-	-	66	
1.5 Boost Circuit RC discharge time (ms	0.75	1.0	1.5	
1.6 Boost Energy (Joules) 1.5	2.0	2.5	
1.7 Recommended discharge energy in ignition transformer 0.1 to 0.2 Joules.				
1.8 Main DC power supply to deliver operating current within RC discharge tim	ne of boost circ	cuit.		
19 Ignition requirements applicable throughout lamp life.				
lectrical				
2.1 Operating Power (Watts)	175	300	305	
2.2 Operating Current (Amps)	13.0	22.0	23.0	
2.3 Initial Lamp Voltage (Volts)	11.5	13.5	15.0	Voltage may change over lamp life
2.4 Ripple Current 0 - 1kHz (pk-pk %)	-	-	2	
Light Output / Performance at Nominal Power (initial only unless other	vise specifie	ed)	_	
3.1 Spot Size at Focus - FWHM (inches		.09	-	
32 Radiant Output (Watts	, 	65	-	
3.3 UV Output < 390nm (Watts	·	3.3	-	
3.4 IR Output > 770nm (Watts		32	-	
3.5 Total Visible Output 390 - 770nm when new (Lumens		6900		
3.6 Total Visible Output 390 - 770nm @ 500 hours (Lumens	, 	3450	-	
3.7 Color Temperature (Kelvin		5900	-	May decrease 5-10% over lamp life
			-	way decrease 5-10 % over lamp life
		3500	-	
		2000	- 6	As new Excelling test method and equipment
3.10 Peak instabilities 0 - 100Hz, integrated light when new (% 3.11 Peak instabilities 0 - 100Hz, integrated light @ 1000 hours (%)		4	8	As per Excelitas test method and equipment
3.11 Peak instabilities 0 - 100Hz, integrated light @ 1000 hours (% <i>R</i> echanical & Environmental	-	-	0	As per Excelitas test method and equipment
		05.4		
4.1 Window Diameter (millimeters		25.4	-	
42 Recommended Exit Air Flow (CFM		45	-	Manufa and and af life
4.3 Operating Temperature at top center of ceramic (Celsius		120	150	Max is at end of life
4.4 Storage Temperature (Celsius		-	70	
4.5 Ambient Starting Temperature (Celsius		-	-	
4.6 Operating Humidity (% non-condensing		-	85	
4.7 Weight (Grams		750	-	
4.8 Recommended Environmental Operating Pressure (hPa		1010	1050	hPa = hectopascals (Pascals x 100) = millibar
4.9 Operating Orientation (Degrees from horizontal		0	45	
4.10 Material composition for lamp module housing 20% glass filled nylon (UL9				
4.11 Optical components used with lamp module should not impede air flow, no				
4.12 Air flow and air inlet temperature should always ensure lamp temperature				ip life.
4.13 EMI characteristics may vary with operating hours and power. Adequate sy		ions should be	taken.	
4.14 Additional EMI may result when operated outside the recommended powe	r range.			
4.15 Non-operating Shock and Vibration per ISTA1A.				
Narranty & Limitation of Excelitas Technologies Liability				
5.1 Warranty Period : 12 months				
5.2 Warranty : 50% of initial 6mm lumens output minimum specification at 500) hours of cont	tinuous operatio	on with no m	ore than 1000 ignition cycles
conditional on operation within specification limits & warranty period.				
5.3 Where no minimum or maximum value is specified, the value is nominal o	<u> </u>			
5.4 Excelitas assumes no responsibility for the suitability of this product for an	y particular ap	plication or any	consequent	ial damages associated
with the use of this product.				

This document contains confidential information of Excelitas Technologies. The contents shall not be disclosed, reproduced, duplicated, disseminated, or used for purposes other than authorized in writing by Excelitas Technologies.