

B02 Plasma Module Specifications

Model: B02

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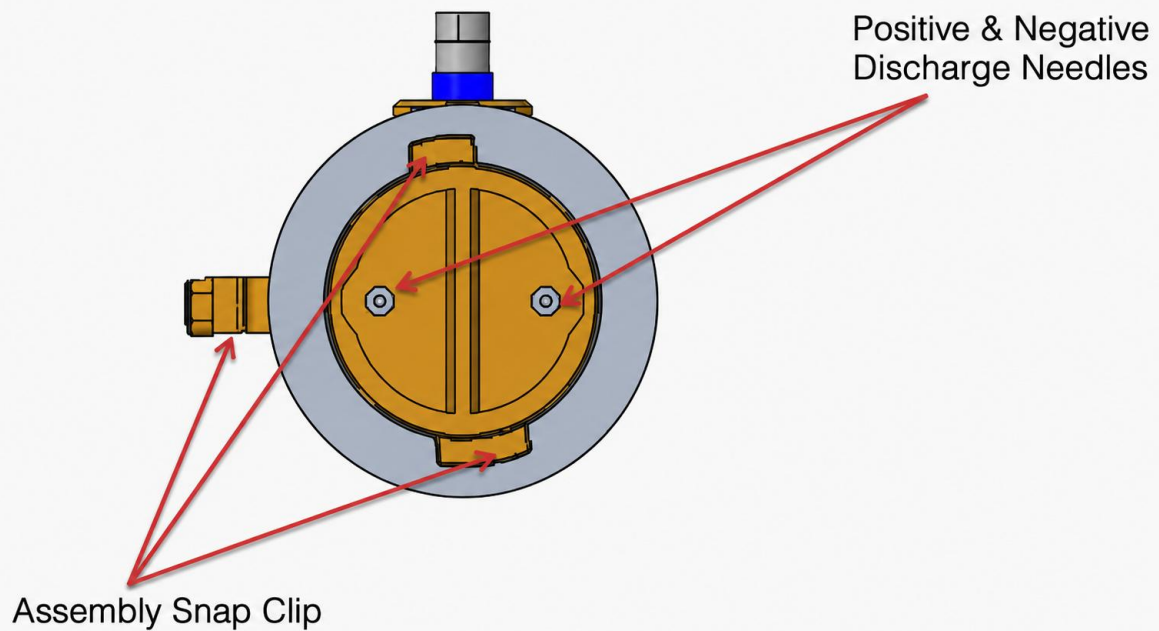
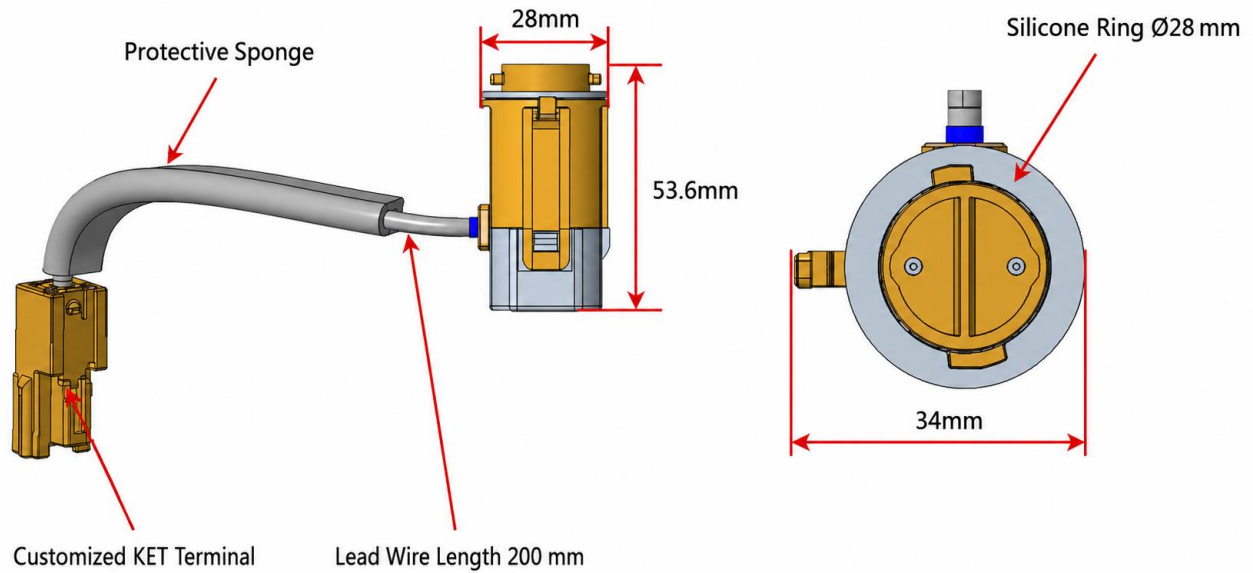


Approved Approved	Review Check	Prepared by Prepare

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1 Schematic Diagram

Basic Dimensions of Plasma Module



2 System Parameters

Table 1-1 Negative Ion Module System Parameters Table

Name	Plasma Technical Parameters
Rated Voltage	12Vdc
Voltage Range	9~16Vdc
Rated Operating Current	≤50mA
Start-up Current	≤100mA
Communication Method	Hardwired Communication
Positive & Negative Ion Concentration	Positive ions generated at the electrode: $> 2 \times 10^7$ pcs/cm ³ Negative ions generated at the electrode: $> 2 \times 10^7$ pcs/cm ³
Ozone Concentration	<0.050ppm
Operating Temperature	-40~85℃
Storage Temperature	-40~90℃

3 System Functional Block Diagram

Control Scheme Description: The product is hardwired to the air conditioner controller, which controls the ionization on/off by regulating the power supply to the plasma module.

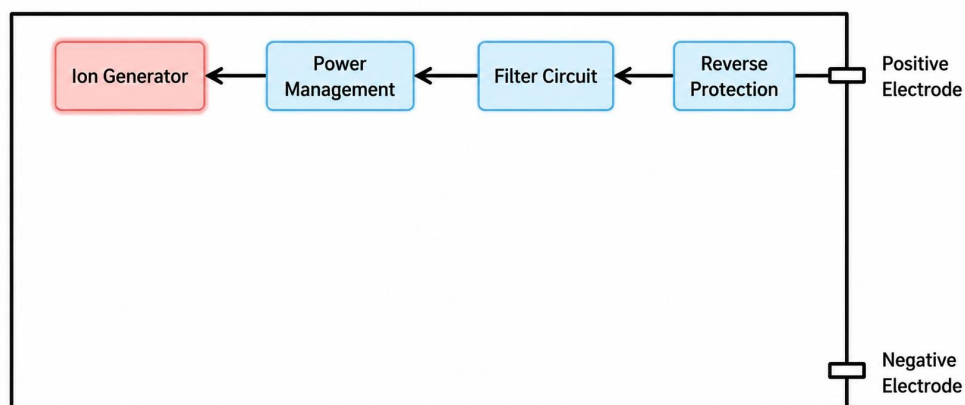


Figure 3-1 Module Functional Block Diagram

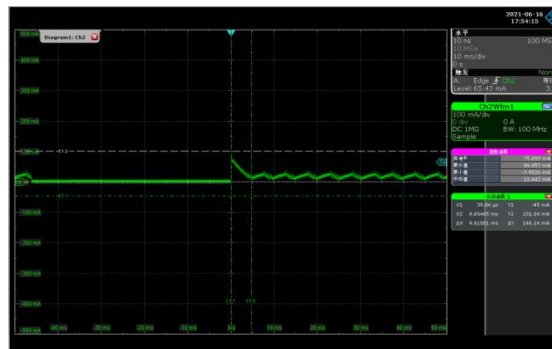
4 Measured Plasma Performance

4.1 Ion Concentration Test

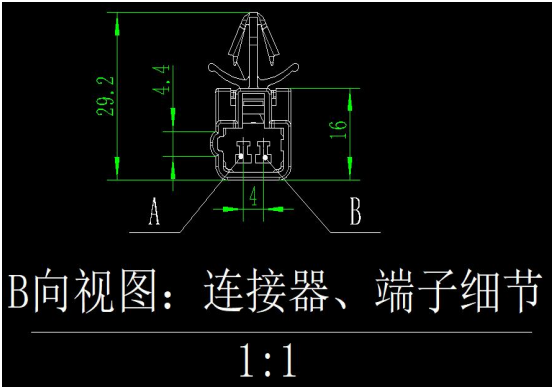
Item	Ion Concentration (Test Distance: 15 cm, Airflow Velocity: 35 m/s)
Positive Ion Concentration	21.1 million PCS/cm ³
Negative Ion Concentration	19.4 million PCS/cm ³

4.2 Start-up Current Test

The maximum startup current is 86.957 mA, which meets the <100 mA requirement.



5 Interface Information



针脚号 Pin(电器端)		功能定义 Function Definition	工作电压 (V) Working voltage			工作电流 (A) Working Current		
			Min	额定 Rated	Max	Min	额定 Rated	Max
等离子 发生器总成	A	Vcc	9	12	16	-	-	0.1
	B	GND	0	-	0	-	-	-