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# Power Units

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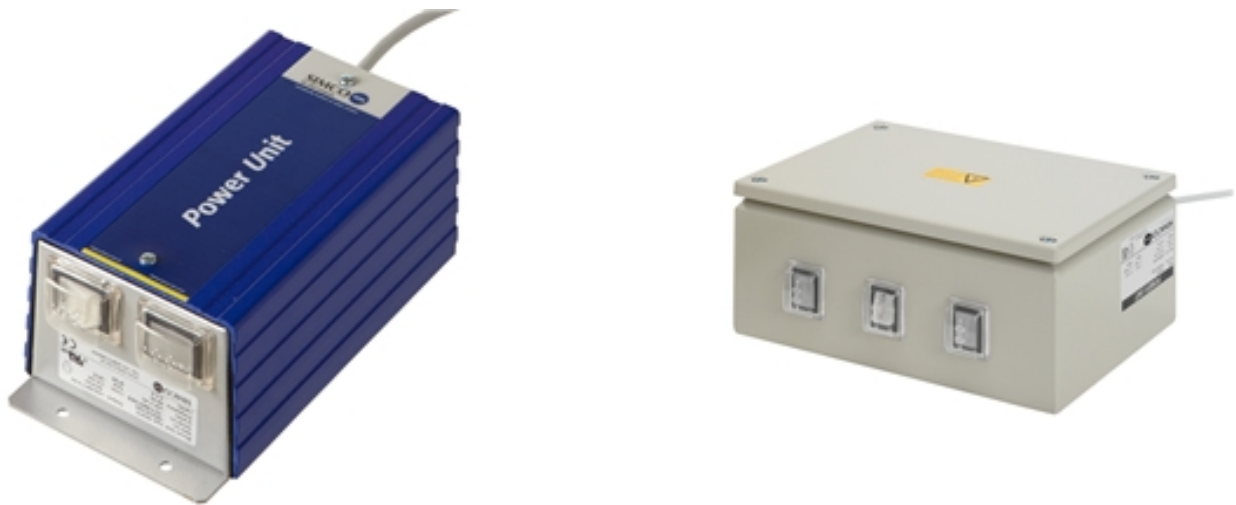
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# 1 Power Units

Power Units

## 1.1 Overview

The power units transform the mains voltage to the high voltage required by the ionizer.



## 1.2 Applications

Active ionisation equipment operates on high voltage. There are different types of power units available. Power units are easily connected and operated and don't need any maintenance.

## 2 Models

### 2.1 Power Units

Active ionization equipment operates on high voltage. The power units transform the mains voltage to the high voltage required by the ionizer. They are easily connected and operated and don't need any maintenance.

**A: Power unit**

The standard model has a modern styling featuring easy-access control and connections. It is equipped with an on/off switch with an indicator lamp as well as a high-voltage indicator lamp. This lamp will extinguish if the system is malfunctioning. Four ionizers can be connected as a maximum.

Model	A
Housing material	aluminium and steel, powdercoating
Weight	2,8 kg
Connections	4
On/off switch with lamp	yes
High voltage indication	neonlamp
Cable	1,8 m
Ambient temperature	0 - 50°
Use circumstances	industrial
Protection classification	IP-54
U primary	110 V or 230 V *
Frequency	50 or 60 Hz*
Power consumption	50 Watt
U secondary	3,3 - 7 kV AC *
I secondary	2,5 mA max.
Option	HR, D
Approval	UL



**LB2A4S: Power unit**

This power unit is equipped with two high-voltage transformers with 180° phase-shifted output voltages. As a result, the anti-static bars connected to the power unit produce positive and negative ions simultaneously. This ensures optimal neutralization of static charges even at very high velocities. This power unit is fitted with two high-voltage indicators and an on/off switch with an indicator lamp.

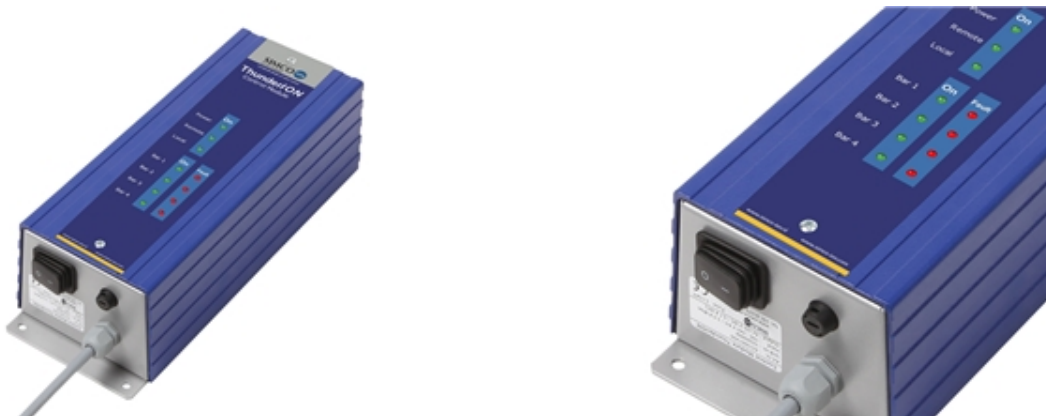
Model	LB2A4S
Housing material	aluminum and steel, powdercoating
Weight	2,8 k
Connections	4
On/off switch with lamp	yes
High voltage indication	neonlamp
Cable	1,8 m
Ambient temperature	0 - 50°
Use circumstances	industrial
Protection classification	IP-54
U primary	110 V or 230 V *
Frequency	50 or 60 Hz*
Power consumption	50 Watt
U secondary	7 kV AC *
I secondary	2,5 mA max.
Option	BHR, D
Approval	UL



### ThunderION: Control Module

The ThunderION Control Module provides the power and the control for up to four ThunderION anti-static bars. With this Control Module, you can control all connected ThunderION anti-static bars and check they are working correctly from a central location. The Control Module operates on the mains voltage, which can be turned on and off with a switch. A cable with a pre-assembled connector at each end links the ThunderION anti-static bar with the Control Module. This offers quick and easy assembly. All cables carry just 24 V. The Control Module enables you to check the functioning of each connected anti static bar. A green LED indicates that the bar is switched on. A red LED indicates that a fault has been detected. Via the I/O port, you also have the option of switching each bar on/off remotely and separately, as well as checking its correct functioning.

Model	ThunderION
Housing material	Aluminium and steel, powdercoating
Weight	3,1 k
Connections	four connectors for ThunderION bar, one connector for remote I/O
On/off switch with lamp	yes
High voltage indication	four LED's
Cable	1,8 m, 3 conductors
Ambient temperature	0 - 50°
Use circumstances	industrial
Protection classification	IP-54
U primary	100 V or 240 Vac *
Frequency	50 or 60 Hz*
Power consumption	Max. 100 W
U secondary	24 Vdc
I secondary	2,8 A (4 x 0,7A)
Option	Remote Control
Approval	UL



**MPM: Power unit**

The Multi Power Master (MPM) is an addition to the range of high voltage powers units. It features electronically stabilized output voltage and a wide range of input voltages. Input voltages range from 100-240 V AC, 50-60 Hz. Output voltage is preset at the factory to 3.3 , 4.0 , 5.0, and 7 kV. Green and red LED's are incorporated in the top face of the MPM. Optionally the MPM can be fitted with a I/O connector for interfacing with f.e. a PLC. Optional I/O signals are available for remote on/off, high voltage present and overload. The I/O connector also contains a 24 V power source for use with the Typhoon airpressure sensor.

Model	MPM
Housing material	aluminum and steel, powdercoating
Weight	3 kg
Connections	4
On/off switch with lamp	yes without light
High voltage indication	LED
Cable	1,8 m
Ambient temperature	0 - 50°
Use circumstances	industrial
Protection classification	IP-54
U primary	100 V or 240 V *
Frequency	50 or 60 Hz*
Power consumption	36 Watt
U secondary	3,3 - 7 kV AC *
I secondary	3 mA max.
Option	B,H,M,O,P and R
Approval	UL



### 3 Technical data

#### Power Units

Model	Housing material	Weight	Connections	On/off switch with lamp	High voltage indication	Cable
A	aluminium and steel, powder-coating	2,8 kg	4	yes	neonlamp	1,8 m
LB2A4S	aluminum and steel, powder-coating	2,8 k	4	yes	neonlamp	1,8 m
ThunderION	Aluminium and steel, powder-coating	3,1 k	four connectors for ThunderION bar, one connector for remote I/O	yes	four LED's	1,8 m, 3 conductors
MPM	aluminum and steel, powder-coating	3 kg	4	yes without light	LED	1,8 m

Model	Ambient temperature	Use circumstances	Protection classification	U primary	Frequency
A	0 - 50°	industrial	IP-54	110 V or 230 V *	50 or 60 Hz*
LB2A4S	0 - 50°	industrial	IP-54	110 V or 230 V *	50 or 60 Hz*
ThunderION	0 - 50°	industrial	IP-54	100 V or 240 Vac *	50 or 60 Hz*
MPM	0 - 50°	industrial	IP-54	100 V or 240 V *	50 or 60 Hz*



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Model	Power consumption	U secondary	I secondary	Option	Approval
A	50 Watt	3,3 - 7 kV AC *	2,5 mA max.	HR, D	UL
LB2A4S	50 Watt	7 kV AC *	2,5 mA max.	BHR, D	UL
ThunderION	Max. 100 W	24 Vdc	2,8 A (4 x 0,7A)	Remote Control	UL
MPM	36 Watt	3,3 - 7 kV AC *	3 mA max.	B,H,M,O,P and R	UL