

Model	Image	Power (W)	Weight (KG)	Airflow Rate (m3/hr)	Airflow Rate (cfm)	Dimensions	QTY of filter cell	Size of filter cell	Pressure of Filter	Pressure of Pre-filter	Flange	Power Supply
						L*W*H (mm)		mm	Pa	Pa	mm	
BS-216Q-2K		650	72.5	2000	1176.47	735×712×773	1	487.5×483.4×240	≤30	80	431×564	1P+N+PE AC220 50HZ
BS-216Q-3K		677	100	3000	1764.71	735×810×886	1	600.5×581.3×240	≤30	80	529×677	
BS-216Q-4K		698	107.2	4000	2352.94	735×871×942.5	1	657.0×642.0×240	≤30	80	590×734	
BS-216Q-6K		730	140.4	6000	3529.41	735×1394×886	2	600.5×581.3×240	≤30	80	1113×677	
BS-216Q-8K		748	153.8	8000	4705.88	735×1515×942.5	2	657.0×642.0×240	≤30	80	1234×734	
BS-216Q-10K		809	195	10000	5882.35	735×2030×886	3	600.5×581.3×240	≤30	80	1696×677	
BS-216Q-12K		1460	245.95	12000	7058.82	735×1394×1631	4	600.5×581.3×240	≤30	80	1113×1422	
BS-216Q-16K		1496	299.2	16000	9411.76	735×1515×1744	4	657.0×642.0×240	≤30	80	1234×1535	
BS-216Q-20K		1532	352.8	20000	11764.7	735×1977×1631	6	600.5×581.3×240	≤30	80	1696×1422	
BS-216Q-24K		1576	388	24000	14117.6	735×2198×1744	6	657.0×642.0×240	≤30	80	1879×1535	



Stainless steel #304 Filter



Digitalized High-frequency High-voltage Power Pack



Diagnosis Controller for Power Pack



Filter cell cleaning brush

Structure Introduction:



Average Smoke Removal Efficiency: 92%

Parameters of Digital HV Power Pack Main Components: High-voltage transformer, Digital circuit board,

Electric Reactor, Coolings Fans;

Specifications: Input Voltage: AC220V; Output Voltage: 12000V~16000VDC

Curret: 10mA~60mA, Power output: 100~1500 Watts; Working frequency: 27KHz-100KHz;

Digital Circuit Board

Soft Startup, Short Circuit Protection, Invariable Current Output, Transformer Over-heated Protection, Power Over Loading Protection, Arc Extinction and Auto Reposition, Self-diagnosis of malfunction

Fire Safety: With built-in computer chip, the PCB can collect operating parameters of ESP, such as current, voltage, temperature, etc. In case spark/ arcing occurs inside filter cell, the PCB collects and records this so as to regulate working current accordingly. After sparks/arcing occur for several times, the current will be slowly lowered down to zero. That's to say, the ESP unit is able to stop automatically to avoid fire risks.

High-voltage Transformer

Applies mature epoxy resin dry type transformer vacuum sealing, high temperature curing technology strong power, low temperature, impact resistance, no maintenance, no electromagnetic radiation

Features of Cylindrical Honeycomb Filter Cell

Protected by multiple patents, the filter cell consists of a parallel arrangement of cylindrical collectors formed as a honeycomb, with the spiked needle ionizers (electrodes) running on their axis, this ensures that the strongest possible average electrostatic intensity can be generated inside the filter cells

Perforated Pre-filter

To remove large particles and oil droplets and aid in even air distribution across the filter cells so that uniform load is received in every single collector and cleaning and servicing costs are reduced.

Add-on Features

- a. Structure of the electrostatic field strength has been optimized and I-V characteristics of the electrodes has been greatly enhanced, resulting in higher climate adaptability of the products.
- b. Standard USB interface has been applied to ensure digitized connectivity between multiple HV power packs, thus a plug and play control mechanism is easily
- c. Reliable data exchange with the BMS (Building Management System) is made possible via Modbus communication protocol.
- d. IEC 60529 rated IP55 electrical enclosure is used to guarantee the all-weather stable operation of the HV power pack.
- e. Nano coating techniques enables transformer to withstand extreme ambient temperatures up to 100°C with no detrimental effect on performance.
- f. A reinforced quality management system (DMCD system) covering the entire designing, manufacturing, testing and ageing processes of the HV power pack is established to further enhance its performance efficiency.
- g. Digital display panel allows working statuses such as working current, fault reminder and error code etc to be explicitly displayed to ensure ease of use.
- h. Door interlock is in place to cut off the electricity when the access door is open to minimize the electrical hazards.