

ES814 Series Precision ES/HV Generator



1. Description

ES814 Series Precision Electrostatic / High Voltage Generators are designed for Laboratory usage with precise and stable High voltage DC output. They can be widely used in Electrostatic Generation, Electrostatic Discharge (ESD) Test, Electrospinning, and other high voltage applications in many industries.

2. Features

- 0 to $\pm$ maximum continuous adjustment
- Low ripple and drift output
- Precise voltage / current displays
- Over current protection
- Overheat protection
- Optional remote-control function

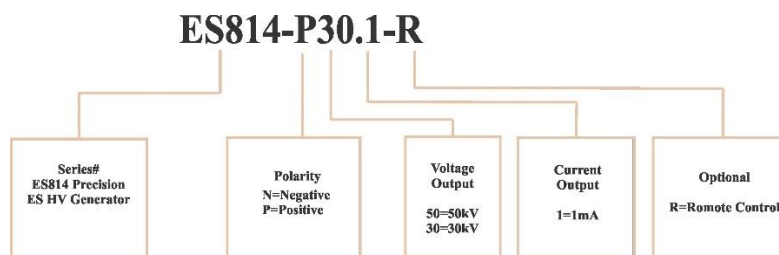
3. Applications

- High voltage power supply
- High voltage susceptibility test
- ESD susceptibility test
- Electrostatic generator
- Material insulation test
- HV or E-field calibration

4. Specifications

Model	ES814-P30.1	ES814-N30.1	ES814-P50.1	ES814-N50.1	Comments
Output Voltage Range	0 ~ +30kV	0 ~ -30kV	0 ~ +50kV	0 ~ -50kV	
Rated Output Current	1mA				
AC Power Input	90V ~ 264V, 47Hz ~ 63Hz				
Output Power	≤ 30 W	≤30 W	≤50 W	≤50 W	
Voltage Ripple	≤0.50%				
Voltage Regulation	≤0.10%				Under pure resistive load, rated output, input voltage changes by ±10%
Load Regulation	≤0.50%				
Working temperature	0°C ~ +50°C				
Time drift	≤ 0.1 %/h				
Temperature Shift	≤0.1%/°C				
Local Control	By adjusting the multi-turn potentiometer, the output voltage can be set between 0V and the maximum voltage				
Remote Control	Can be achieved through a computer or hardware that loads the Modbus communication protocol				Optional with different model numbers. Please check the order information below
Weight	About 3kg		About 4.4kg		
Sizes	300*260*45mm		430*350*45mm		

5. Ordering Information



Line	Part # or Option #	Description
1.1	ES814-P30.1	Precision ES/HV Generator, 0 ~ +30kV, 1mA, without remote control function
1.2	ES814-P30.1-R	Precision ES/HV Generator, 0 ~ +30kV, 1mA, with remote control function
1.3	ES814-N30.1	Precision ES/HV Generator, 0 ~ - 30kV, 1mA, without remote control function
1.4	ES814-N30.1-R	Precision ES/HV Generator, 0 ~ - 30kV, 1mA, with remote control function
1.5	ES814-P50.1	Precision ES/HV Generator, 0 ~ +50kV, 1mA, without remote control function
1.6	ES814-P50.1-R	Precision ES/HV Generator, 0 ~ +50kV, 1mA, with remote control function
1.7	ES814-N50.1	Precision ES/HV Generator, 0 ~ - 50kV, 1mA, without remote control function
1.8	ES814-N50.1-R	Precision ES/HV Generator, 0 ~ - 50kV, 1mA, with remote control function