



## EVS Series Battery Simulator

- DC source mode
- Battery output characteristic simulation
- Customizable battery models
- Output simulation based on Simulink battery models (Optional)
- Voltage compensation
- Power meter

### Summary

EVS Series Battery Simulator is a DC power system that simulates the output state of batteries based on types, and serial/parallel numbers. Widely applied in the R&D process and production testing of OEMs and auto-parts suppliers, it is a highly efficient tool to verify the response characteristics of the test objects under various battery conditions. The Series can simulate charge/discharge characteristics of batteries based on SOC, and types. Typical test objects include motor controller, drive motor, and vehicle assembly etc.

### Advantages

- Wide range of output voltage and current
- High output precision and resolution
- Fast dynamic response in 3-6ms
- Multiple filtering solutions that eliminate any impact on the load
- Superposition of ripples (Optional)
- A high-performance communication platform, CAN, that allows swift response in 1ms upon instruction
- Standardized communication interfaces include RS485/CAN/LAN



### HEFEI KEWELL POWER SYSTEM CO., Ltd.

Hefei Headquarters: 0551-65837951    Beijing Branch: 010-87514122    Shanghai Branch: 021-69897355    Shenzhen Branch: 0755-23205180  
 Xi'an Branch: 029-86691696    Nanjing Branch: 025-86557702    Chongqing Office: 023-65869858    Taiwan Agency: +886-2506-0980  
 Germany Agency: +49 (0)30 / 20 67 48 35    Korea Agency: +82-31-737-4754

### Specifications

Specifications Model						
Models	Rated Power (kW)	Rated Current (A)	Rated Voltage (V)	Peak Power (60s)(kW)	Peak Current (60s)(A)	Voltage Range*(V)
EVS-80-1000	80	300	266	120	450	24-1000
EVS-100-1000	100	350	285	150	525	24-1000
EVS-150-1000	150	500	300	200	666	24-1000
EVS-200-1000	200	600	333	250	750	24-1000
EVS-250-1000	250	600	416	350	840	24-1000
EVS-300-1000	300	750	400	400	1000	24-1000
EVS-400-1000	400	1000	400	500	1250	24-1000
EVS-500-1000	500	1200	416	600	1440	24-1000

\*Rated voltage of each model above is also available in 800V and 1200V.  
 \*High voltage standard product is also available in 1500V and 2000V, with dual channel.

Input Requirements	
Phase	3φ3W + PE
Voltage	380V±15%
Frequency	50Hz±5Hz

Output Characteristics	
Voltage Precision	± (0.1%FS+5dgt)
Current Precision	± (0.1%FS+5dgt)
Response Time	≤3ms(10%-90%)
Switching Time	≤6ms(±90%~90%)
Voltage Ripple (rms)	≤0.2%FS
Load Regulation	0.1%FS
Protection	Overvoltage/Overcurrent/Overtemp./Phase Loss/Emergency Stop

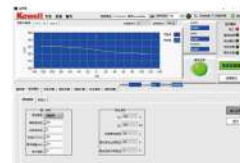
Feedback Characteristics	
Energy Recovery	Energy recovery is available in full power range
THD	≤3%
Power Factor	≥0.99

Safety & Ambient Conditions	
Insulation Resistance	≥20MΩ(500Vdc)
Withstand Voltage	2000V DC (60s, no arch/break down)
Ground Resistance	≤0.1Ω
Protection Level	IP21 (Indoor)
Cooling	Fan Cooling
Ambient Temperature	-10 ~ 40°C
Relative Humidity	0-90%RH (Non-condensing at 25°C)
Altitude	≤2000m

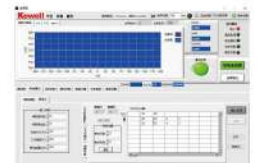
Communication Interfaces	
Local Interface	LCD
Remote Comms	RS485/LAN /CAN
Others	External Emergency Stop/ Fault Signal/Voltage Compensation

### Software Interface

Available with three modes, DC source/Battery Types/Customize Battery Models.



Battery Types Simulation



Customize Battery Models