



EVS Series Battery Simulator

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

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)
- Fast CAN communication: 1ms
- Standardized communication interfaces: RS485/CAN/LAN/Ether CAT (Optional)



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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

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

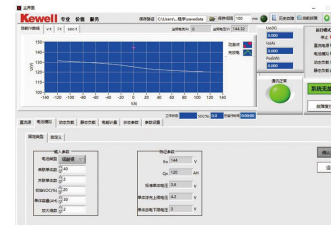
Communication Interfaces	
Local Interface	LCD
Remote Comms	RS485/LAN /CAN
Others	External Emergency Stop/ Fault Signal/Voltage Compensation

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

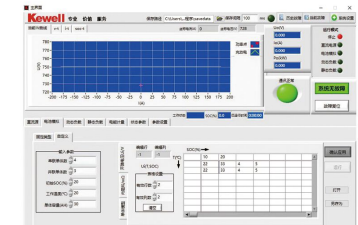
Safety & Ambient Conditions	
Insulation Resistance	≥20MΩ(500Vdc)
Withstand Voltage	2000V DC (60s, no arch/break down)
Ground Resistance	≤0.1Ω
Protection Level	IP21 (Indoor)
Cooling	Fan Cooling
Ambient Temperature	-10 ~ 40°C
Relative Humidity	0-90%RH (Non-condensing at 25°C)
Altitude	≤2000m

Software Interface

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



Battery Types Simulation



Customize Battery Models