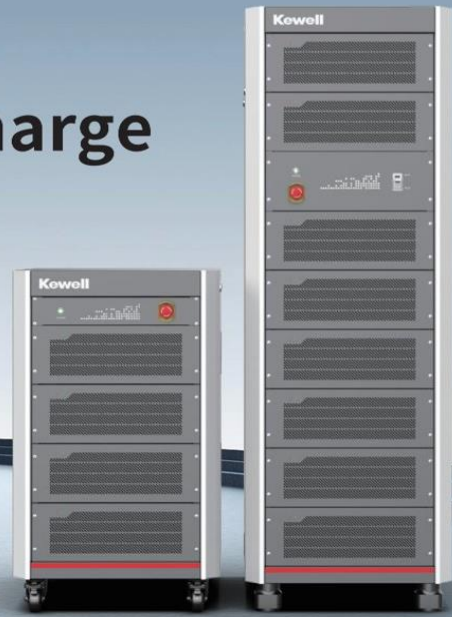


Module Charge and Discharge Test System

B2000-EM Series



The B2000-EM series module charge-discharge test power supply is suitable for various application in the R&D design, test verification and production EOL test of high-power battery modules, and can test the charging, discharging and cycling functions of the modules. EMD integrated data acquisition and monitoring, using high frequency power devices, double electrical isolation, featuring high accuracy, fast dynamic response, multi-unit parallel connection, bi-directional operation, etc.



Current response $\leq 1\text{ms}$

@ 0-90% current loading



Independent Modules

Flexible, stable, easy maintenance



$\pm 0.02\% \text{F.S.}$

High accuracy with four current ranges



1ms

Fast data logging



Fast Charge

Support multi-channel parallel connection



Roadmap testing

With resolution of 10ms



Cycle life testing



Capacity testing



SOC testing



DCIR



Pulse testing



Roadmap simulation

Model	Single channel	Single Channel	Channel	Voltage Range[V]
	Power[kW]	Current[A]		
B2000-160-200-100-8	20	100	8	0-200
B2000-320-200-200-8	40	200	8	0-200
B2000-480-200-300-8	60	300	8	0-200
B2000-400-200-500-4	100	500	4	0-200
B2000-360-300-300-4	90	300	4	0-300

Note: Flexible configuration of channels for each specification, with the option of a negative voltage type unit.

Input	
Phase	3φ3W + PE
Voltage	400V±10%
Frequency	50Hz±5Hz
Output	
Voltage Accuracy	≤0.02%F.S.
Current Accuracy	≤0.02%F.S.
Response Time	≤2ms (10%-90% sudden load)
Switching Time	≤4ms (+ 90%- 90% switching)
Display Resolution	0.1mV/0.1mA
Set Resolution	0.1mV/0.1mA
Ripple(rms)	≤0.1%F.S.
Efficiency	≥90%
Protection	Over-voltage, over-current, over-temperature, emergency stop, short-circuit, current leakage, reverse connection protection, communication interruption, etc.
Energy Recovery	
Power	Energy recovery in full power range
iTHD	≤3%
PF	≥0.99
Communication Interface	
Remote Interface	RS485/LAN/CAN
Others	External emergency stop, fault signal, voltage compensation
Safety and Environment	
Grounding Resistance	≤0.1Ω
Cooling	Air cooling
Ambient Temperature	-10 ~ 40°C
Relative Humidity	0-90%RH (25°C non-condensing)
Altitude	≤2000m

Traction battery

Energy storage battery

R&D

Testing institutes