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## TECHNICAL PRODUCT INFORMATION

### Test & measurement instruments

- ▶ high - quality
- ▶ moderate prices
- ▶ excellent precision

#### **Your contact:**

Technical support, services, demo & rental equipment, price information  
& quotes, consulting:

Tel.: +49(0)7032 / 895 93-3

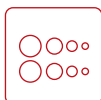
Mail: [sales@lxinstruments.com](mailto:sales@lxinstruments.com)

Web: [www.lxinstruments.com](http://www.lxinstruments.com)

Shop: [www.lxinstruments.com/shop](http://www.lxinstruments.com/shop)

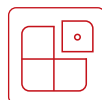
# Programmable Bidirectional DC Power Supply

— D2000-EV Series —



## 176kW/m<sup>3</sup> – 300kW@900kg

Get 300kW in one cabinet lighter than 900kg



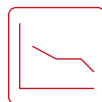
## Independent Modules

Flexible, stable, easy maintenance



## Up to 300V/ms

Super-fast voltage rise



## $\Delta V \leq 10V$

0-90%  $\Delta I$  @10ms



## SiC Design

All new generation



## Efficiency > 95.5%

Reduce carbon emissions



## Multi-function

Source /load /battery simulation...



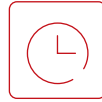
## CC/CV Priority

Meeting varied test requirements



## $\pm 0.02\%F.S.$

High voltage/current accuracy



## Fastest recovery in 500 $\mu$ s

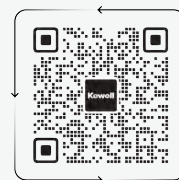
Super fast recovery from sudden loading

KEWELL TECHNOLOGY CO., LTD.

<https://www.kewelltest.com/>

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(QR code) >>



D2000-EV Series is an intelligent DC power supply boasting high accuracy, high dynamic response, and high efficiency. Adopting the all-new third-generation wide bandgap semiconductor device—SiC, the product series is highly modularized and standardized, offering industry-leading performance + experience. It is widely applicable to testing for electric vehicles, energy storage, aerospace and rail transit, as well as testing performed by research institutes and universities and colleges.

|                             |     |                                |     |  |
|-----------------------------|-----|--------------------------------|-----|--|
| <b>Normal</b>               | >>> | <b>Pro</b>                     | >>> | <b>Ultra</b>                                 |
| Fundamental, Cost-effective |     | Fully-featured, Multi-scenario |     | Ultimate experience,<br>Lab testing-oriented |

| D2000-EV Series    |  |                                   |            |            |
|--------------------|--|-----------------------------------|------------|------------|
| Version            |  | Normal                            | Pro        | Ultra      |
| Function param     |  |                                   |            |            |
| Voltage range      | 12-1200V                               | ●                                 | ●          | ●          |
| Power/current      | 100kW/300A                             | ●                                 | ●          | -          |
|                    | 200kW/600A                             | ●                                 | ●          | ●          |
|                    | 300kW/900A                             | ●                                 | ●          | ●          |
|                    | 400kW/1200A                            | ●                                 | ●          | ●          |
|                    | 500kW/1200A                            | ●                                 | ●          | ●          |
|                    | 600kW/1200A                            | -                                 | ●          | ●          |
| Function           | Bidirectional DC power supply          | ●                                 | ●          | ●          |
|                    | Battery simulation                     | ●                                 | ●          | ●          |
|                    | Electronic load                        | -                                 | ●          | ●          |
|                    | Electrically operated switch           | -                                 | ●          | ●          |
|                    | Manual switch                          | ●                                 | -          | -          |
|                    | Communication interfaces RS485/LAN/CAN | ●                                 | ●          | ●          |
| Output parameters  | Voltage accuracy                       | ±0.05%F.S.                        | ±0.05%F.S. | ±0.02%F.S. |
|                    | Current accuracy                       | ±0.1%F.S.                         | ±0.05%F.S. | ±0.02%F.S. |
|                    | Response time                          | 2ms                               | 1ms        | 500μs      |
|                    | Switching time                         | 4ms                               | 2ms        | 1ms        |
|                    | Voltage slew rate                      | 100V/ms                           | 200V/ms    | 300V/ms    |
|                    | Current slew rate                      | 200A/ms                           | 300A/ms    | 500A/ms    |
|                    | Voltage ripple                         |                                   | ≤0.1%F.S.  |            |
|                    | Current ripple                         |                                   | ≤0.1%F.S.  |            |
|                    | Efficiency                             |                                   | 95.5%      |            |
|                    | Grounding resistance                   |                                   | ≤0.1Ω      |            |
| Input parameters   | Grid voltage                           |                                   | 380V±15%   |            |
|                    | Grid frequency                         |                                   | 47-63Hz    |            |
|                    | iTHD                                   |                                   | ≤3%        |            |
|                    | Power factor                           |                                   | ≥0.99      |            |
| General parameters | Operating temperature                  |                                   | -10 ~ 40°C |            |
|                    | Dimensions/weight                      | See product portfolio for details |            |            |

Note: ● come with standard equipment    - none

