# Product Datasheet - Technical Specifications



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**Your contact**

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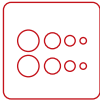E-Mail:  **sales@meilhaus.com**

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# Bidirectional Programmable DC Source-load System
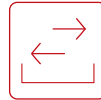
## — S7000 Series —

Kewell S7000 series integrates bidirectional DC source and electronic load functions, supporting active/free switching. In the bidirectional DC source mode, it has source mode that supplies power and sink mode that collects energy from the DUT and feeds back to the grid. Its DC electronic load mode features various load modes that ensure no power output.

The S7000 series also supports step editing, while integrating IV simulation, battery simulation, battery charge-discharge, function generator, vehicle power curve and other functions. With various built-in standard curves, it meets the testing requirements of multiple scenarios.

### 30kW in 3U
Ultra-high power density

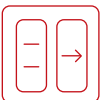### 1ms
High speed communication

### ≥ 200V/ms
Rapid voltage slew rate

### Up to 500μs
Very short response time

### Parallel
Flexible paralleling for higher power

### CC/CV Priority
Meeting varied test requirements

### Built-in standard curves
EN50530,NB/T32004,CGC/GF004,CGC/GF035;
ISO16750-2,LV123, DIN40839, etc.

### Efficiency up to 95%
Lower carbon emissions

KEWELL TECHNOLOGY CO., LTD.

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

| S7000 Series | | | | | |
|---|---|---|---|---|---|
| **Function Params** | | Version | | Normal | Pro | Ultra |

| Function Params | Version | | | Normal | Pro | Ultra |
|---|---|---|---|---|---|---|
| Model | 7.5kW | 750V | 60A | ● | ● | ● |
| | 15kW | 750V | 120A | ● | ● | ● |
| | 30kW | 750V | 180A | ● | ● | ● |
| | 15kW | 1500V | 60A | ● | ● | ● |
| | 21kW | 2000V | 60A | ● | ● | ● |
| | 30kW | 2000V | 60A | ● | ● | ● |
| | 5kW | 100V | 200A | ● | ● | ● |
| | 10kW | 100V | 400A | ● | ● | ● |
| | 15kW | 100V | 600A | ● | ● | ● |
| Functions | DC source | | | ● | ● | ● |
| | IV simulation | | | – | ● | ● |
| | Battery simulation | | | – | ● | ● |
| | Battery charge-discharge | | | – | ● | ● |
| | Function generator | | | – | ● | ● |
| | Vehicle power curve | | | – | ● | ● |
| | Electronic load | | | – | – | ● |
| | Communication interfaces RS485/RS232/LAN/CAN/USB | | | ● | ● | ● |
| Output parameters (100V/750V and above) | Voltage accuracy | | | ≤0.02%F.S./≤0.05%F.S. | | |
| | Current accuracy | | | ±0.1%F.S. | | |
| | Dynamic response time | | | 500us/1ms | | |
| | Voltage slew rate | | | 10V@ms/200V@ms | | |
| | Current slew rate | | | 450A@ms/20A@ms | | |
| | Voltage ripple | | | See product portfolio for details | | |
| | Current ripple | | | See product portfolio for details | | |
| | Efficiency | | | 95% | | |
| Input parameters | Grid voltage | | | 342 ~ 528V | | |
| | Grid frequency | | | 47-63Hz | | |
| General parameters | Operating temperature | | | 0 ~ 40℃ | | |
| | Dimensions | | | 699(D)*445(W)*133(H) | | |

Note:   ●  come with standard equipment       –   none

Electric Vehicle

Third-party Laboratory

Higher Education

PV & Energy Storage

Aerospace

Battery