

# High Speed Fuse



**World Class Energy Management Solutions**

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## ***Switch • Measure • Protect***

KG Technologies, founded in 1999, is dedicated to innovative development and high quality/high volume manufacturing of latching relays for the Global Energy Market. We are a preferred supplier due to our ability to provide value-add, cost effective solutions to our customers with the highest quality global standards, and flexible delivery. For our customers, this translates into a significant savings in cost.

In 2015, Hongfa Group, the largest latching relay manufacturer in the world, acquired KG Technologies broadening our product line with a variety of products including power and signal relays, HVDC contactors, current transformers, and smart circuit breakers.

The combined companies have become the largest producer of latching relays in the world. As we continue to grow we will add additional Energy Management Solutions to our portfolio.



## Fuse Applications



### Photovoltaic System

- Fuse Rated Voltage: 1000Vdc, 1500Vdc
- Fuse Rated Current: 5A~630A
- Use Quantity:
  - Cylindrical: 200Kpcs/GW
  - Square body: 6000pcs/GW



### Energy Storage

- Fuse Rated Voltage: 70Vdc~1500Vdc
- Fuse Rated Current: 60A~3000A
- Use Quantity:
  - 60000~100000pcs/GW-Main Circuit
  - 30000~50000pcs/GW-Internal Circuit



### Wind Power System

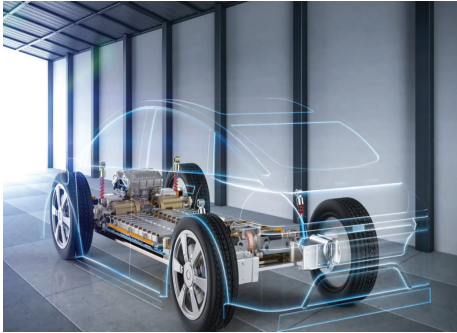
- Fuse Rated Voltage: 230Vdc, 400Vdc, 690Vac, 1140Vac, 1250Vac
- Fuse Rated Current: 50A~800A
- Use Quantity: 20-30pcs/Wind Turbine



### DC Charger

- Fuse Rated Voltage: 800Vdc, 1000Vdc
- Fuse Rated Current: 150A~1000A
- Use Quantity: 2pcs/Charging Pile

## Fuse Applications



### Electric Vehicle

- Fuse Rated Voltage: 500Vdc, 800Vdc, 1000Vdc
- Fuse Rated Current: 10A~800A
- Use Quantity:
- Passenger Vehicle: 1-3pcs (Power Circuit)  
3-5pcs (Auxiliary Circuit)
- Commercial Vehicle:  
3-8pcs (Power Circuit)  
5-8pcs (Auxiliary Circuit)

## Fuse Advantages

### Low Path Resistance

- Allows current to pass with minimal energy loss

### Thermal Sensitivity

- The fuse element melts at a specific temperature based on the magnitude of current flow

### Single-Use (for Most Types)

- Once blown, most fuses must be replaced

### Fast or Delayed Response

- Can be fast-acting or slow-blow, depending on the application

### Voltage & Current Ratings

- Products feature different voltage and current ratings depending on the requirements of the application environment

### Form factors

- There are a variety of different industry standard form factors available



# Energy Storage System Fuse

## HPES01



Rated Voltage: 800Vdc / 1000Vdc  
 Rated Current: 32A~350A / 32A~250A  
 Breaking Capacity: 4In~50kA@800Vdc / 5In~50kA@1000Vdc  
 Operating Class: aR  
 Reference Standards: EC 60269, UL 248, GB/T 13539  
 Safety Certification: US

## HPES03



Rated Voltage: 1500Vdc  
 Rated Current: 100A~500A / 100A~630A  
 Breaking Capacity: 6In~150kA / 6In~250kA@1500Vdc  
 Operating Class: aBat  
 Reference Standards: IEC 60269, UL 248, GB/T 13539  
 Safety Certification: US

## HPES04



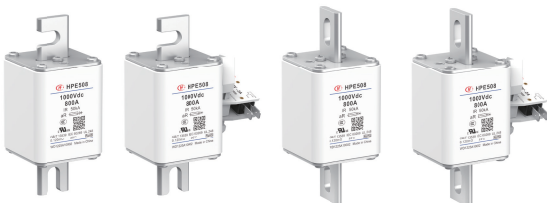
Rated Voltage: 1000Vdc  
 Rated Current: 100A~450A  
 Breaking Capacity: 4In~50kA@1000Vdc  
 Operating Class: aR  
 Reference Standards: IEC 60269, UL 248, GB/T 13539  
 Safety Certification: US

## HPES05



Rated Voltage: 1500Vdc  
 Rated Current: 800A~1800A  
 Breaking Capacity: 6In~250kA@1500Vdc  
 Operating Class: aBat  
 Reference Standards: IEC 60269, UL 248, GB/T 13539  
 Safety Certification: US

## HPES08



Rated Voltage: 1000Vdc  
 Rated Current: 400A~800A  
 Breaking Capacity: 6In~50kA@1000Vdc  
 Operating Class: aR  
 Reference Standards: IEC 60269, UL 248, GB/T 13539  
 Safety Certification: US

## HPES06



Rated Voltage: 1500Vdc  
 Rated Current: 1500A~3000A  
 Breaking Capacity: 6In~250kA@1500Vdc  
 Operating Class: aBat  
 Reference Standards: IEC 60269, UL 248, GB/T 13539  
 Safety Certification: US

# DC Charging Station Fuse

## HPE312



Rated Voltage: 800Vdc  
 Rated Current: 150A~315A / 350A~700A  
 Breaking Capacity: 6In~50kA / 9In~50kA@800Vdc  
 Operating Class: aR  
 Reference Standards: IEC 60269, UL 248, GB/T 13539  
 Safety Certification: c US

## HPE313



Rated Voltage: 1000Vdc  
 Rated Current: 200A~350A / 350A~630A  
 Breaking Capacity: 6In~50kA@1000Vdc  
 Operating Class: aR  
 Reference Standards: IEC 60269, UL 248, GB/T 13539  
 Safety Certification: US

## HPE501



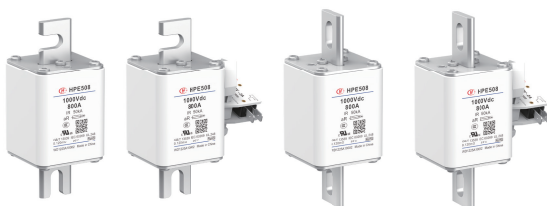
Rated Voltage: 800Vdc / 1000Vdc  
 Rated Current: 32A~350A / 32A~250A  
 Breaking Capacity: 4In~50kA@800Vdc / 5In~50kA@1000Vdc  
 Operating Class: aR  
 Reference Standards: IEC 60269, UL 248, GB/T 13539  
 Safety Certification: c US

## HPE504



Rated Voltage: 1000Vdc  
 Rated Current: 100A~450A  
 Rated Current: 4In~50kA@1000Vdc  
 Operating Class: aR  
 Reference Standards: IEC 60269, UL 248, GB/T 13539  
 Safety Certification: US

## HPE508



Rated Voltage: 1000Vdc  
 Rated Current: 400A~800A  
 Breaking Capacity: 6In~50kA@1000Vdc  
 Operating Class: aR  
 Reference Standards: IEC 60269, UL 248, GB/T 13539  
 Safety Certification: US

## Photovoltaic System Fuse

### HPES02




Rated Voltage: 1500Vdc

Rated Current: 125A~400A / 450A~630A

Breaking Capacity: 2In~50kA@1500Vdc

Operating Class: PV

Reference Standards: IEC 60269, UL 248, GB/T 13539

Safety Certification: 

## Wind Power System Fuse

### HPES04




Rated Voltage: 1000Vdc

Rated Current: 100A~450A

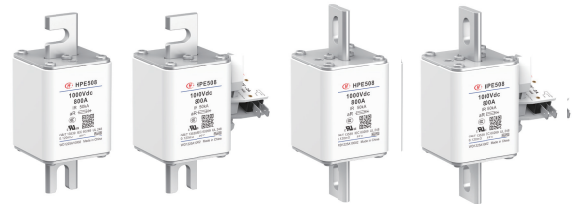
Rated Current: 4In~50kA@1000Vdc

Operating Class: aR

Reference Standards: IEC 60269, UL 248, GB/T 13539

Safety Certification: 

### HPES08




Rated Voltage: 1000Vdc

Rated Current: 400A~800A

Breaking Capacity: 6In~50kA@1000Vdc

Operating Class: aR

Reference Standards: IEC 60269, UL 248, GB/T 13539

Safety Certification: 





KG Technologies Inc.'s commitment is to ensure that our services and products are consistently meeting our customers' expectations, delivered on time and defect free.

We also ensure that our products are compliant with all relevant statutory and regulatory requirements including those from IEC, ANSI and UL regulatory bodies.

Our various product delivery teams are highly skilled and are focused in ensuring that through innovation and creativity we are committed to continual improvement of our product quality and reliability, as well as the efficiency of our service offerings.

### ***Production Quality Standards***

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**RoHS** - KG conforms to the requirements of the RoHS directive (2011/65/EU). This directive specifies the restrictions of the use of hazardous substances in Electrical and Electronic markets in Europe.

**REACH** - The European Union's REACH Directive (EC 1907/2006) is designed to regulate the Registration, Evaluation, Authorization and Restriction of Chemical Substances.

**Conflict Minerals Policy** - We are committed to support ending the violence and human rights violations in the mining of certain minerals from a location described as the "Conflict Region."

In addition to our commitments, we must meet regulatory obligations. For more information view our statement at [www.kgtechnologies.net](http://www.kgtechnologies.net) - Environmental Policies Page.

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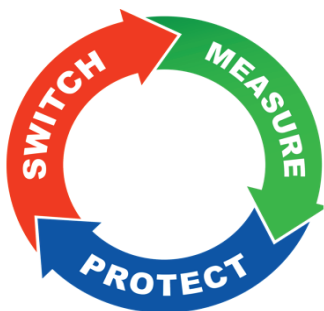
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***We Speak Your Language!***  
***KG Technologies, a Diversified Company***  
***Serving a Diversified Customer Base Globally***



***We strive to provide our customers  
with commitment, teamwork and respect!***



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