

We bring electronics to life

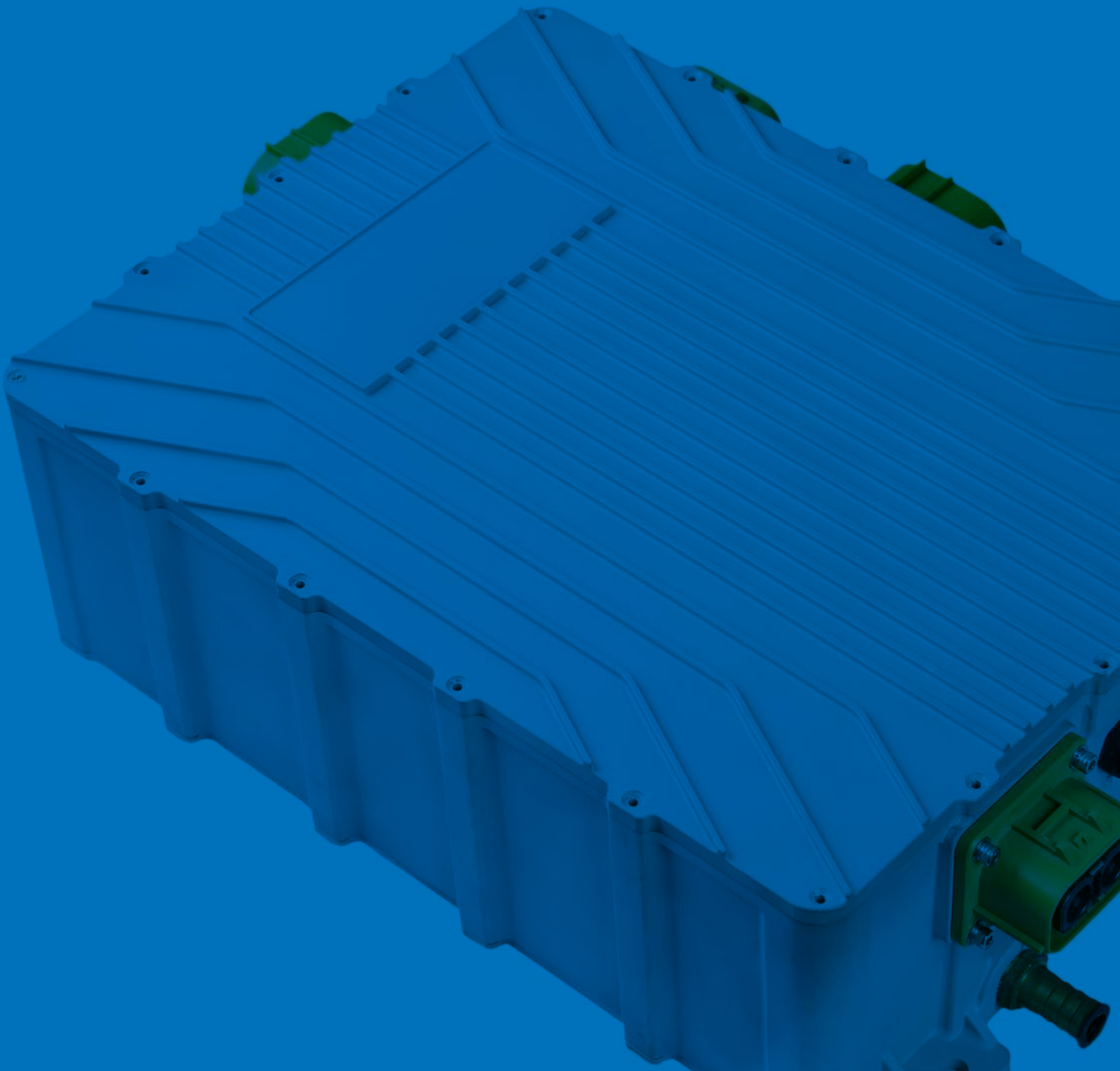


High performance energy solutions  
for High-Tech-Products

[www.hgpower.de](http://www.hgpower.de)



We bring  
electronics  
to life



# Innovative and reliable energy solutions without compromise

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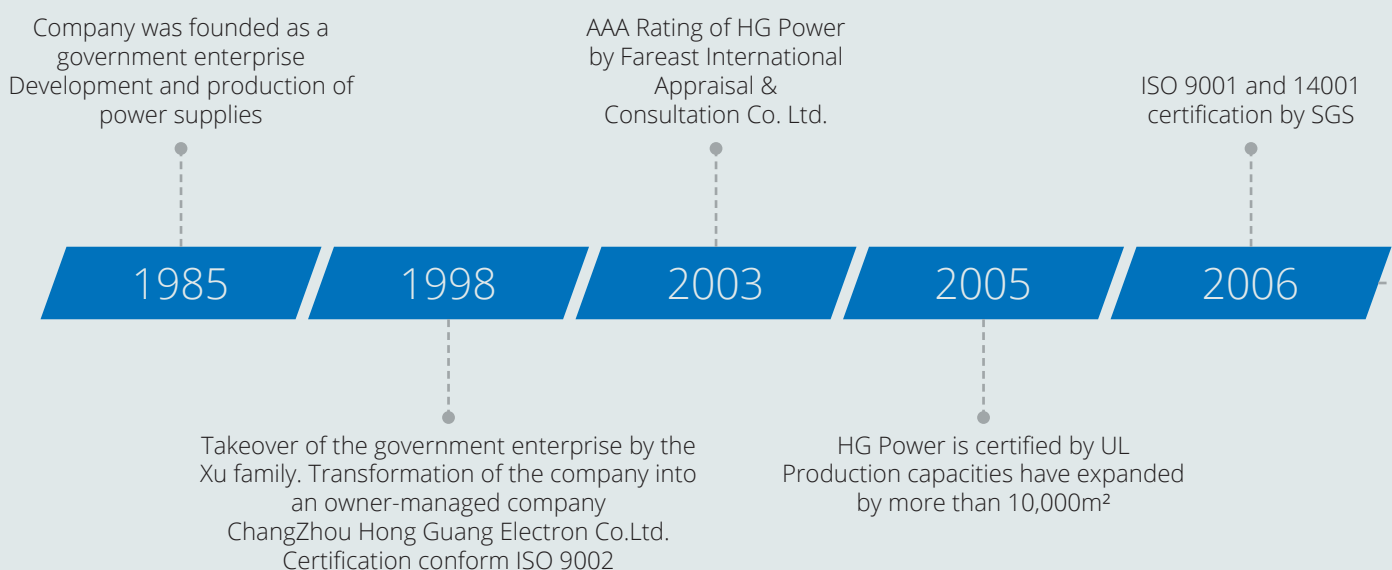


# HGPOWER China

Your reliable partner with more than 30 years of experience and expertise around customized energy solutions. Our product range from automation, IT technology, measuring and control technology, power and gardening tools, LED lighting, home and building technology, electromobility, etc.

## Why are we your ideal partner?

- Experienced development team
- Reliable project management
- Certified QM-processes
- High automation degree
- Network of production facilities
- Network of reliable and qualified suppliers
- Product approvals based on international standards
- Efficient logistics
- Support in your „After Sales“
- Local presence with our European branch in Germany





>400

Employees worldwide

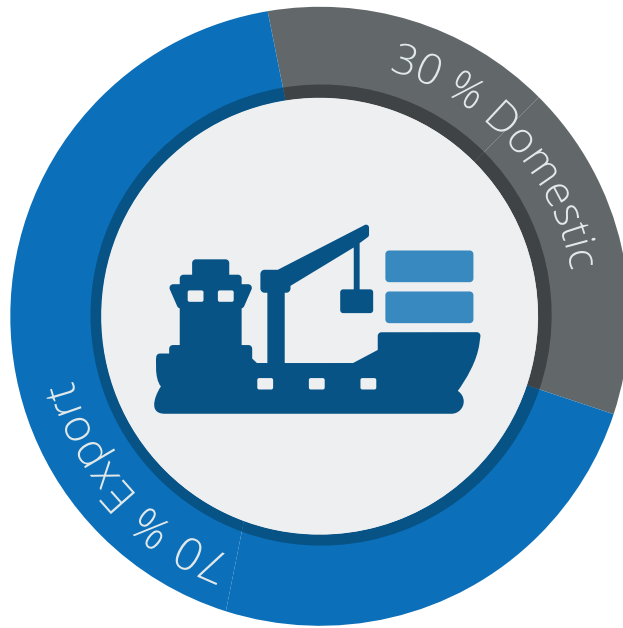
>50

Developers and engineers



>18

Employees in the quality management team



5-7%

R & D investment rate / year



37Mio

Dollars in sales in 2017



600.000 Stk.

Production capacity / month



80% OEM

Products, 20% Standard Products

Development and production of LED drivers

MIL standard certification for power supplies GJB9001B-2009

Achievement of certification according to automotive standard IATF 16949

2008

2010

2014

2015

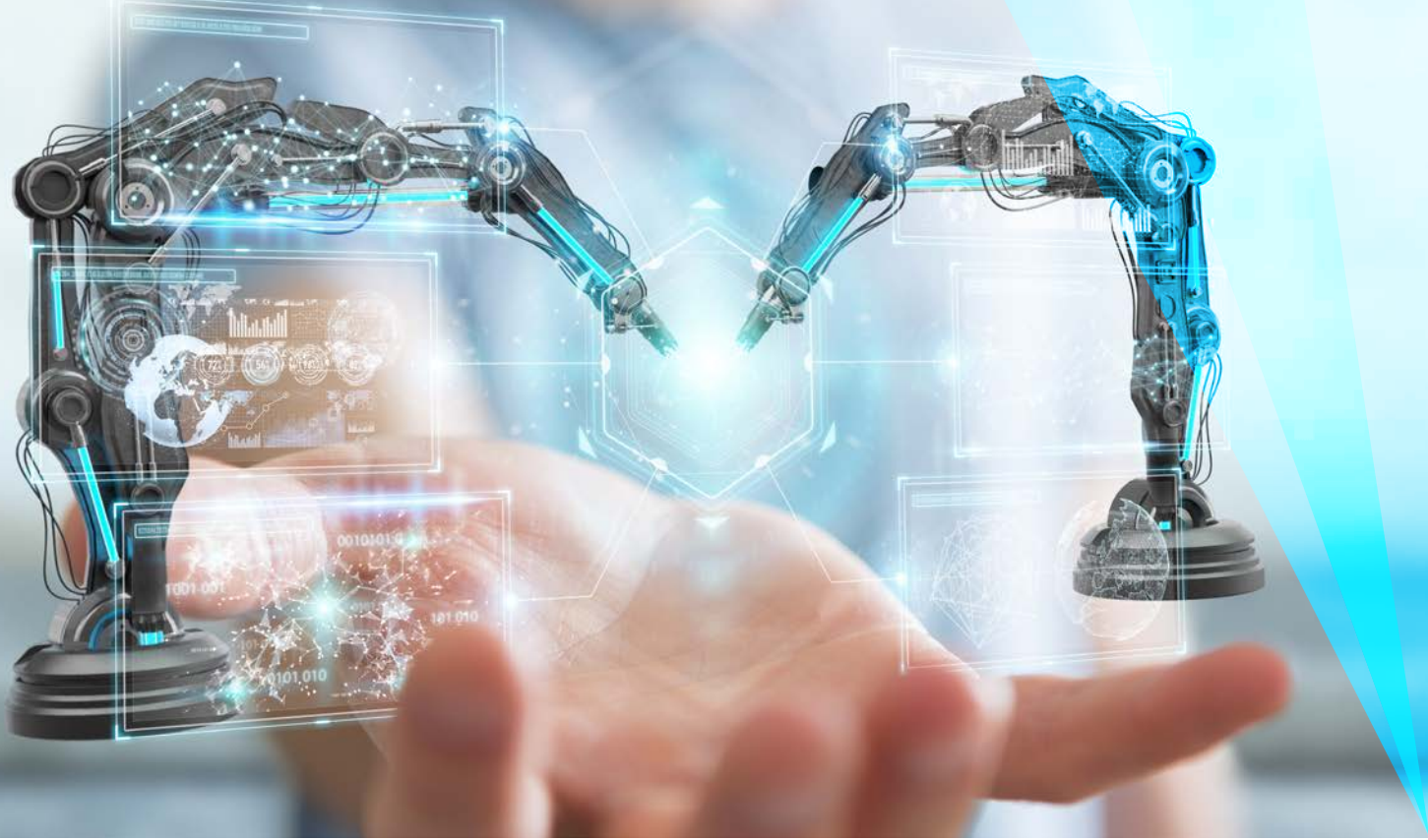
2018

Future

HG Power launches BMS design and EV Charger Development

Relocation of a new company building incl. modern, mainly automatic production

Europe's leading manufacturer of customized energy solutions

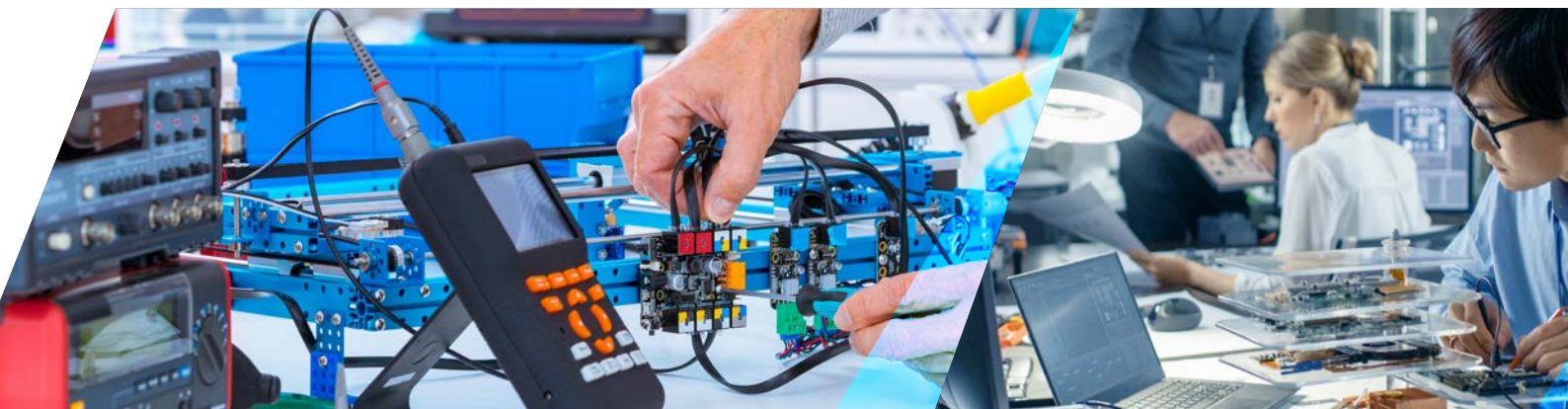


# HGPOWER China

Automation ensures process reliability at a high quality level while taking economic aspects into account. At HG Power, we recognized these advantages early on and automated our production lines to a high level.

Our modern machinery includes:

- Automatic assembly machines SMD and THT
- reflow oven, selective soldering and soldering waves
- Automatic testing systems (electronic and optical) In-Line and End-of-Line
- Automatic depanelization
- Automatic painting and potting
- Automatic screwing
- Fully automatic ultrasonic welding
- Manufacturing robots from Universal Robots and Aubo
- Automatic Hi-Pot Tester
- Burn In-Tester
- EMC chamber (conducted and radiated)
- X-ray station
- IP test including salt dust and corrosion test
- Climate Simulation
- Many more





# Best quality from the beginning

Quality is not created by selection, it's the result of intelligent and reliable processes. This is not limited on the production process, it's the complete product development process up to the end of the product cycle. HG Power is certified conform ISO 9001: 2015 and 14001:2015.



ISO 9001



ISO 14001



In addition, we have been certified in accordance with the highly stringent automotive Standard IATF 16949:2016

IATF 16949

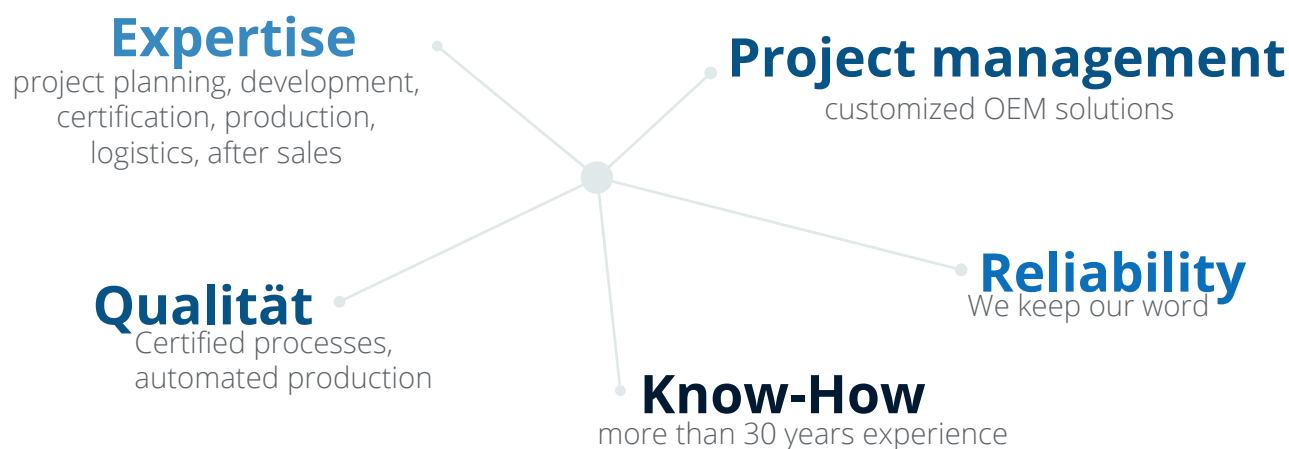


# HGPOWER in Germany

Experienced specialists for your customized energy solution

- Foundation of HGPower GmbH 2018 in Boxberg - Baden-Württemberg
- Technical Project and Sales Office of HG Power China
- Over 12 years of successful partnership with HG Power China
- Cross-industry network in the area of mobile energy
- System provider in the field of energy supply
- Team with approx. 60 years of experience
- Technical Consulting / Project Management / Approvals /
- Production / Logistics / After Sales
- In the business of design of power supplies and charging technology

We stand for



Heiko Schweizer



Stephan Holzwarth



Heiko Kirbach



# You benefit from our expertise

## Challenge us as a strong, reliable partner for your project



### Consultation

Due to our long term experience in the business of customized energy solutions we work out your individual solution professionally, efficiently and innovatively.



### Project management

Detailed project planning and project support are the conditions for an efficient 'Time to Market' realization. We implement your project professionally, efficiently and reliably.



### Development

An experienced team of engineers develops state-of-the-art energy solutions that follow current safety and energy efficiency standards. Innovative solutions are also created through our close cooperation with the University of Nanjing.



### Certification

We attend the successful approval certification of your products for the worldwide markets. We have been working for many years with well-known test institutes and authorities such as UL, TÜV, FCC, PSE, CSA, CCC, Gost-R, etc.



### Production

Due to the high degree of automation of our production lines as well as the processes according to IATF 16949, we provide the highest reliability process and our product quality is safe from an economic point of view.



### After Sales

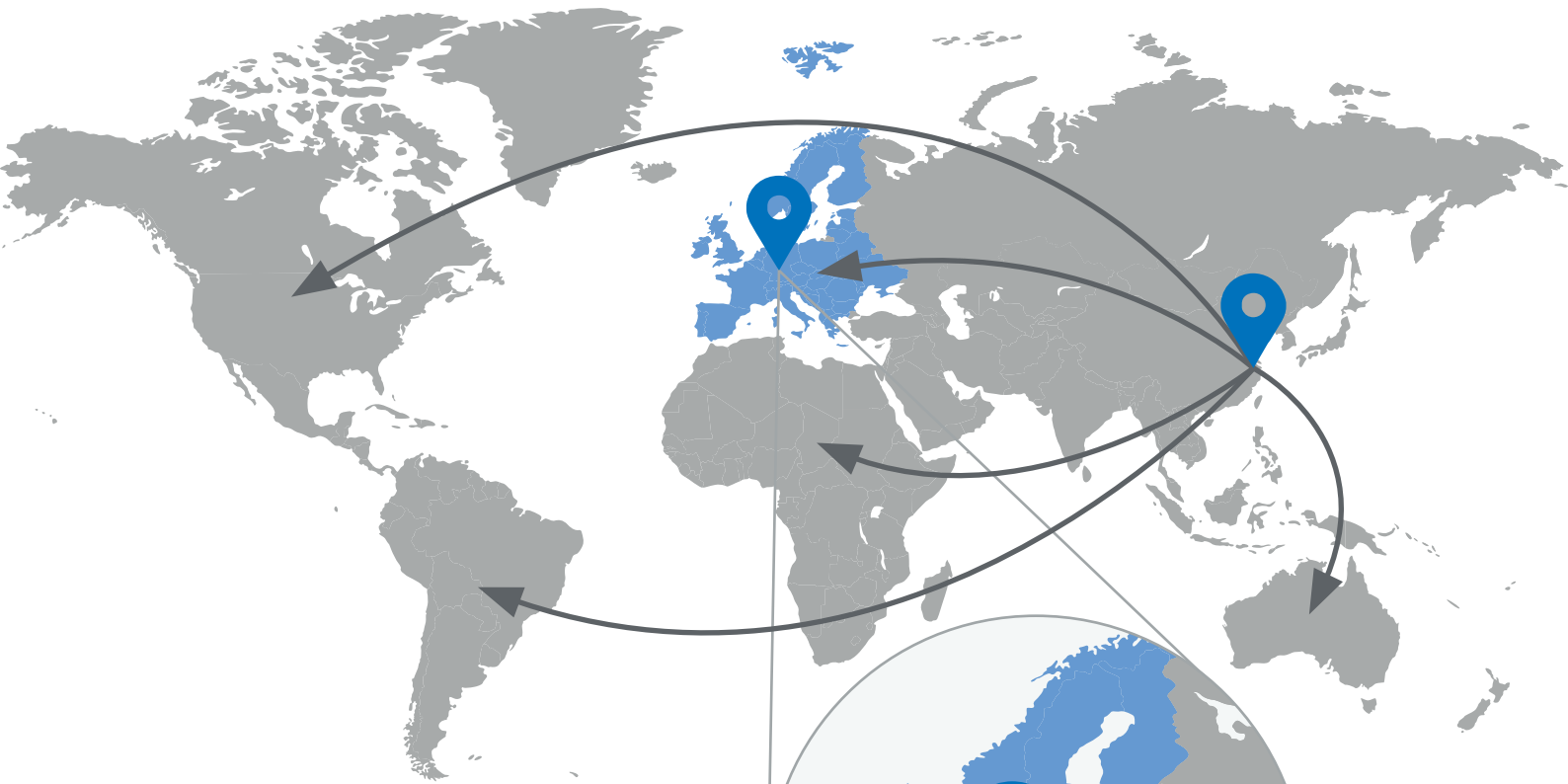
A partnership does not end with the delivery of the product. We give you reliable assistance in after sales service as well. Here, we prove ourselves to be more than a sustainable partner.



# With us you are in good hands

## Transparent processes up to the prouct



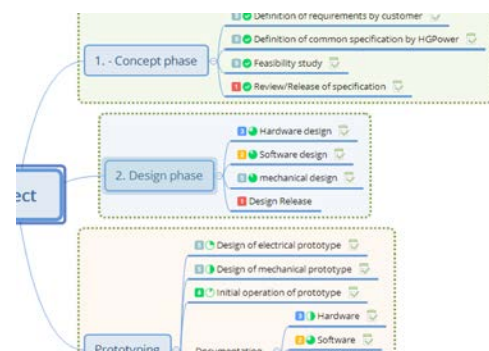
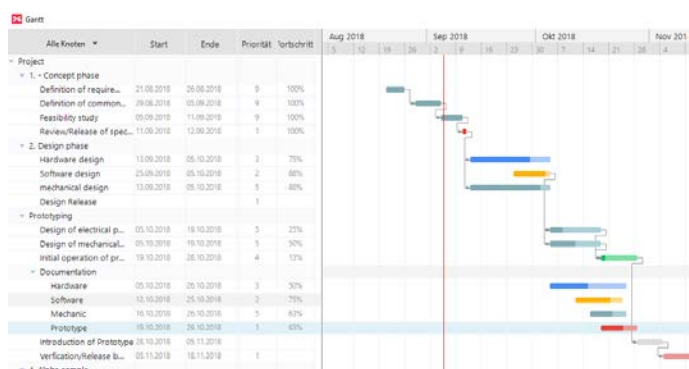


**For the whole of Europe:**

# Logistics & Project Support

Every customer and every project needs individual solutions. Our professional and experienced staff will work with you to develop state-of-the-art configurations. We rely on a maximum of standard technology and supplement it with individual adaptations to your requirements. In addition to customization and development, we

also take responsibility on project management and development. Once created, we also offer you professional after-sales service for product, application and quality assurance.





# OEM

power supplies  
and chargers





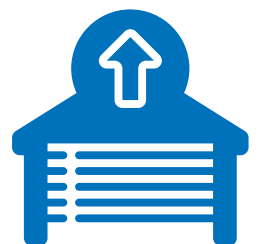
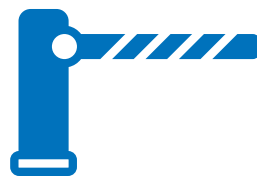
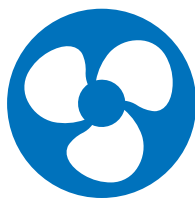
## OEM power supplies and chargers

One of our core competencies is the conception, development, approval and production of customized power supplies and chargers. We offer power supply solutions with output power from 5W up to 2KW as open frame, DIN rail mounting, in plastic or metal housing potted on request and

with one or more outputs. Furthermore, we develop and manufacture charging stations from 5W up to EV chargers with communication (for example CAN, LIN, I<sup>2</sup>C etc.) and output powers of up to 20KW. Here you benefit from our experience from numerous projects.



# Industrial power supplies







# Industrial power supplies

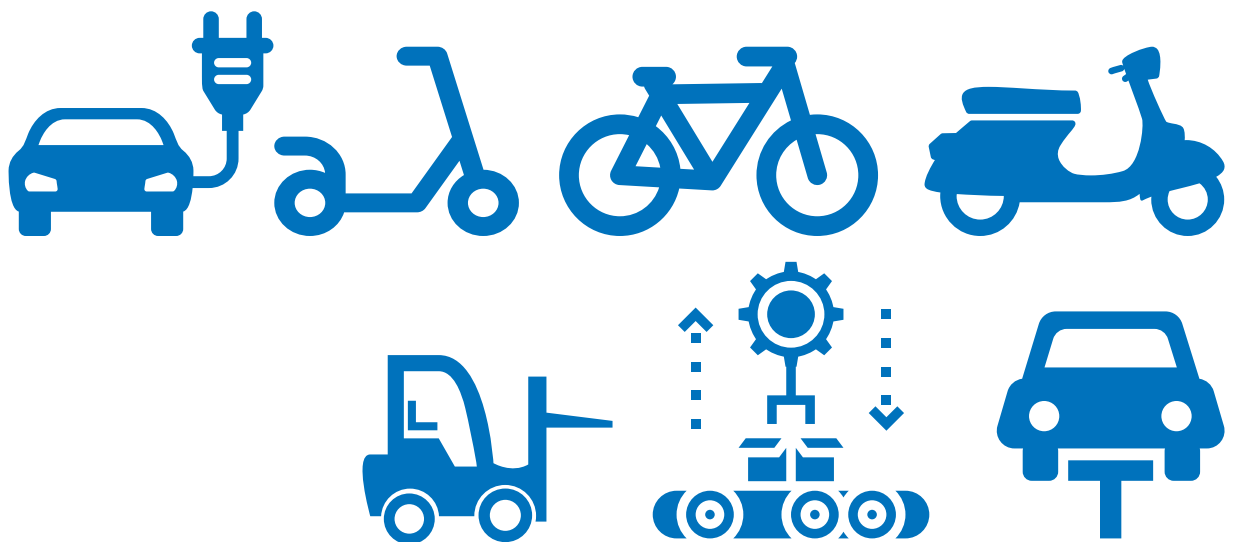
Reliable function and long service life under hard operating conditions define our industrial power supplies. These devices come in a variety of applications such as ticket and slot machines, access systems, security systems, in automation technology, gate drives, etc.

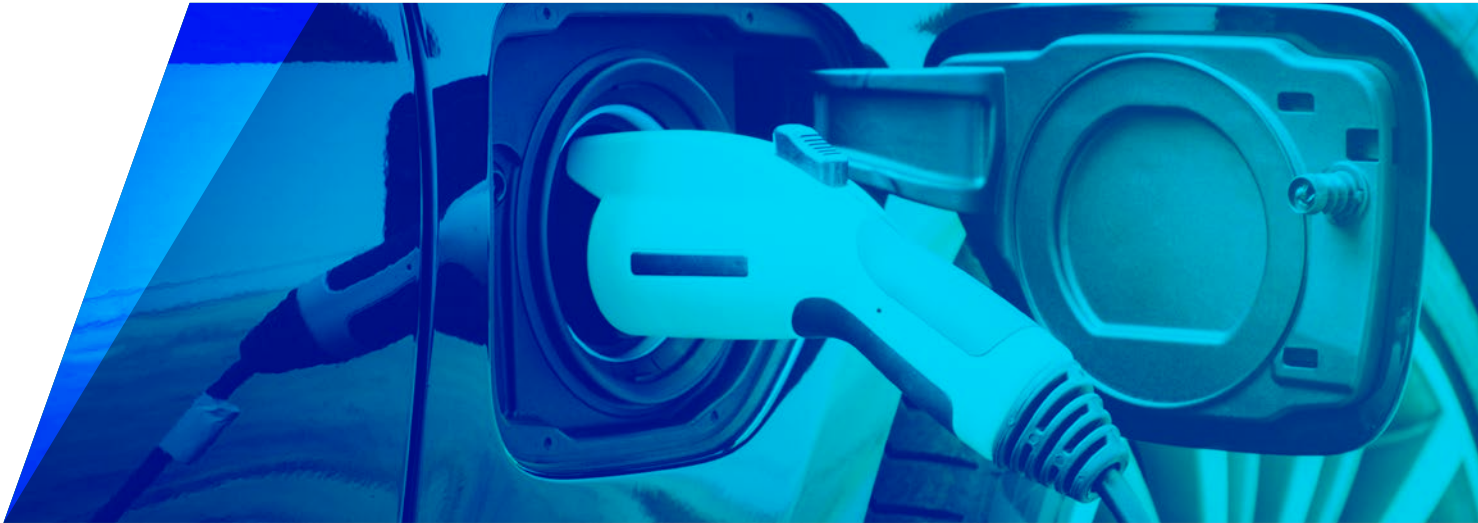
- Wide range of standard devices
- Plug and Desktop Power Supplies
- open-frame power supplies
- Metal housing with and without fan
- DIN rail solutions
- Print Power Supplies
- Partly with PFC
- Output power up to 2KW



# Chargers

for e-mobility





## Chargers for e-mobility on-board and stationary

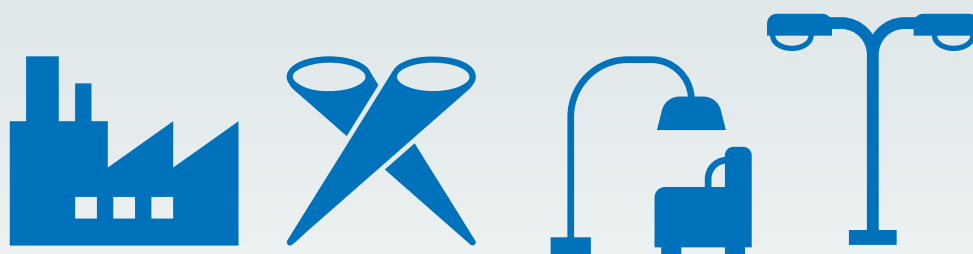
The mobile world is going to be electrified. HG Power supports this change with smart approaches for efficient and cost-effective charging solutions. We utilize on-board or stationary charging solutions and system components. Here we can use a wide assortment of standardized components.

- Charging systems on-board / stationary in the range of 500W -20KW
- Various communication protocols available (CAN 2.0, Open CAN, LIN, I<sup>2</sup>C etc.)
- Up to protection class IP68K
- Accessories such as charging cable available
- Customization possible
- Complete customer-specific developments possible
- Customized Software
- Production line certified according to IATF 16949





# LED Driver



LA Series	LA-P Series	LA-PH Series	LA-PE Series	LA-Y / LV-Y Series	LV Series	LV-P Series	LV-PH Series
3-150W Constant Current	9-60W Constant Current	20-120W Constant Current	3-35W Constant Current	12-35W Constant Current / Voltage	5-150W Constant Voltage	20-60W Constant Voltage	20-120W Constant Voltage
Input 100-240V AC IP67 Plastic Housing	Input 100-240V AC IP67 Plastic Housing	Input 100-240V AC IP67 Plastic Housing	Input 100-240V AC IP20 / IP30 Plastic Housing	Input 100-240V AC IP20 / IP67 Plastic Housing round version	Input 100-240V AC IP67 Plastic Housing	Input 100-240V AC IP67 Plastic Housing	Input 100-240V AC IP67 Plastic Housing
CLASS 2 Short circuit / Overcurrent safe	CLASS 2 Short circuit / Overcurrent / Overvoltage safe With PFC	CLASS 2 Short circuit / Overcurrent / Overvoltage safe With PFC switch-on delay max. 0,5sec no-load power max. 0,5W	CLASS 2 Short circuit / Overcurrent / Overvoltage safe	CLASS 2 Short circuit / Overcurrent / With PFC	CLASS 2 Short circuit / Overcurrent	CLASS 2 Short circuit / Overcurrent / Overvoltage With PFC	CLASS 2 Short circuit / Overcurrent / Overvoltage With PFC switch-on delay max. 0,5sec no-load power max. 0,5W



# LED Driver

HG Power offers a wide range of LED drivers in various designs, output powers and circuit topologies. In the field of LED lighting technology, highest efficiency with small mechanical dimensions and highest reliability are in demand. Here HG Power scores with a multitude of clever standard solutions for a wide variety of applications.

- Constant Current Series (CC) with and without PFC
- Constant Voltage Series (CV) with and without PFC
- Constant Current / Constant Voltage Series
- Highly efficient LED driver according to ErP standard
- Dimmable LED driver
- Plastic or metal housing
- Output power up to 600W
- LED driver with DALI control and multiple outputs

LGA Serie	LGA Serie	LGA-A Serie	LGD Serie	LD Serie	LD Serie	LGA-PH Serie	DALI Serie
40-300W Constant Current	60-300W Constant Voltage	60-300W Constant Voltage	60-300W	25-120W	25-120W	100-150W Constant Current / Voltage	DALI 40 / 60W
Input 100-240V AC	Input 100-240V AC	Input 100-240V AC	Input 100-240V AC	Input 100-240V AC	Input 100-240V AC	Input 200-240V AC	Input 100-240V AC
IP67 Metal Housing CLASS 2	IP67 Metal Housing CLASS 2	IP65 Metal Housing CLASS 2	IP67 Metal Housing CLASS 2	IP67 Plastic Housing CLASS 2	IP67 Plastic Housing CLASS 3	IP67 Plastic Housing CLASS 2	IP620Plastic Housing CLASS 2
Short circuit / Overcurrent / Overvoltage	Short circuit / Overcurrent / Overvoltage	Short circuit / Overcurrent / Overvoltage	Short circuit / Overcurrent / Overvoltage	Short circuit / Overcurrent / Overvoltage / Overtemperature	Short circuit / Overcurrent / Overvoltage / Overtemperature	Short circuit / Overcurrent / Overvoltage	Short circuit / Overcurrent / Overvoltage
With PFC, PF>0.9 Surge 4KV	With PFC, PF>0.9 Surge 4KV	With PFC, PF>0.9 Surge 4KV	With PFC, PF>0.9 Surge 4KV	With PFC	With PFC	With PFC	With PFC
		CV 15% adjustable via potentiometer	3 in 1 Dimm-funktion 1-10V, PWM, resistor	4 in 1 Dimm-funktion 1-10V, PWM, resistor	5 in 1 Dimm-funktion 1-10V, PWM, resistor	switch-on delay max. 0,5sec no-load power max. 0,5W	DALI Interface  Up to 4 Output voltages

# >> Let's start your project now



[www.hgpower.de](http://www.hgpower.de)

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