must have

AC- / DC-Sources | Electronic Loads
Inverter | Power Supplies
Bidirectional DC-Sources

DEVELOPMENT | PRODUCTION | SALES

ETSYSTEM®

WELCOME TO YOUR PARTNER

for individual solutions to your power requirements

For more than 20 years, we have been offering our customers sophisticated solutions for a wide range of power supply applications. We can develop and manufacture for you high-quality power supplies, from an individual item to medium and high volume products. Our broad palette of power platforms and the use of state of the art development systems enable us to provide the right custom solution in all product ranges.

Our active ISO 9001 quality management system and direct communication between our engineers and our customers provide for an efficient and smooth development process. Our high vertical integration enables extremely short deployment times from the first contact to delivery of the units.

TO REFLECT OUR MOTTO – „THE WORLD OF POWER“

LOCATIONS


ENGLAND, CHESTERFIELD
GERMANY, ALTLUSSHEIM
FRANCE, L`ISLE D`ABEAU
CHINA, BEIJING
SOUTH KOREA, SEOUL
TURKEY, KAYSERI

HEADQUARTER Altlußheim, Germany

ET System electronic GmbH
Altlußheim, Germany, www.et-system.com

HEADQUARTER

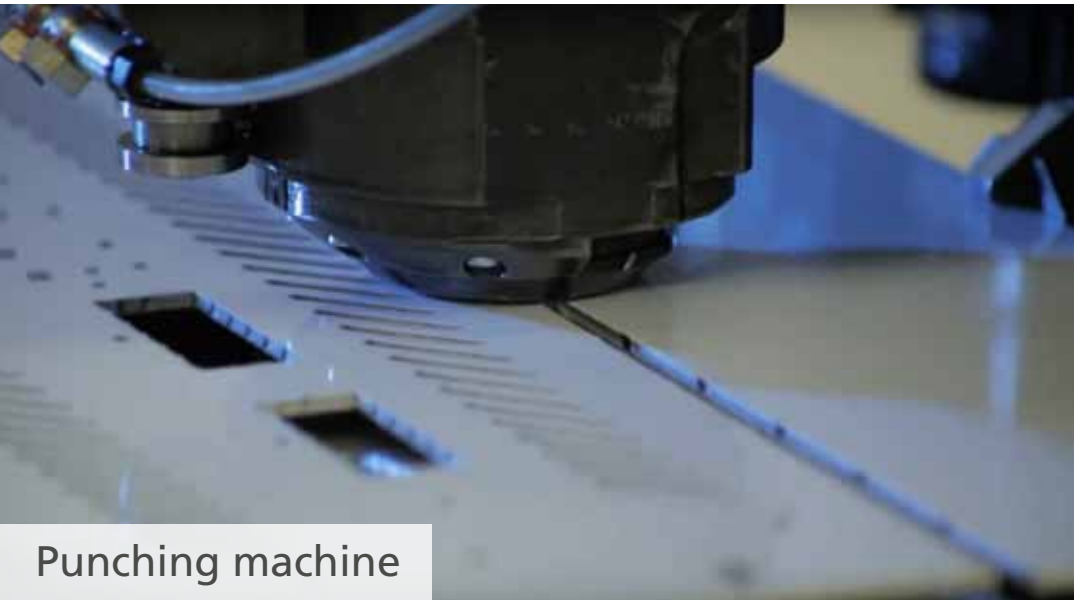
Meeting in Altlußheim

Production AC-Sources

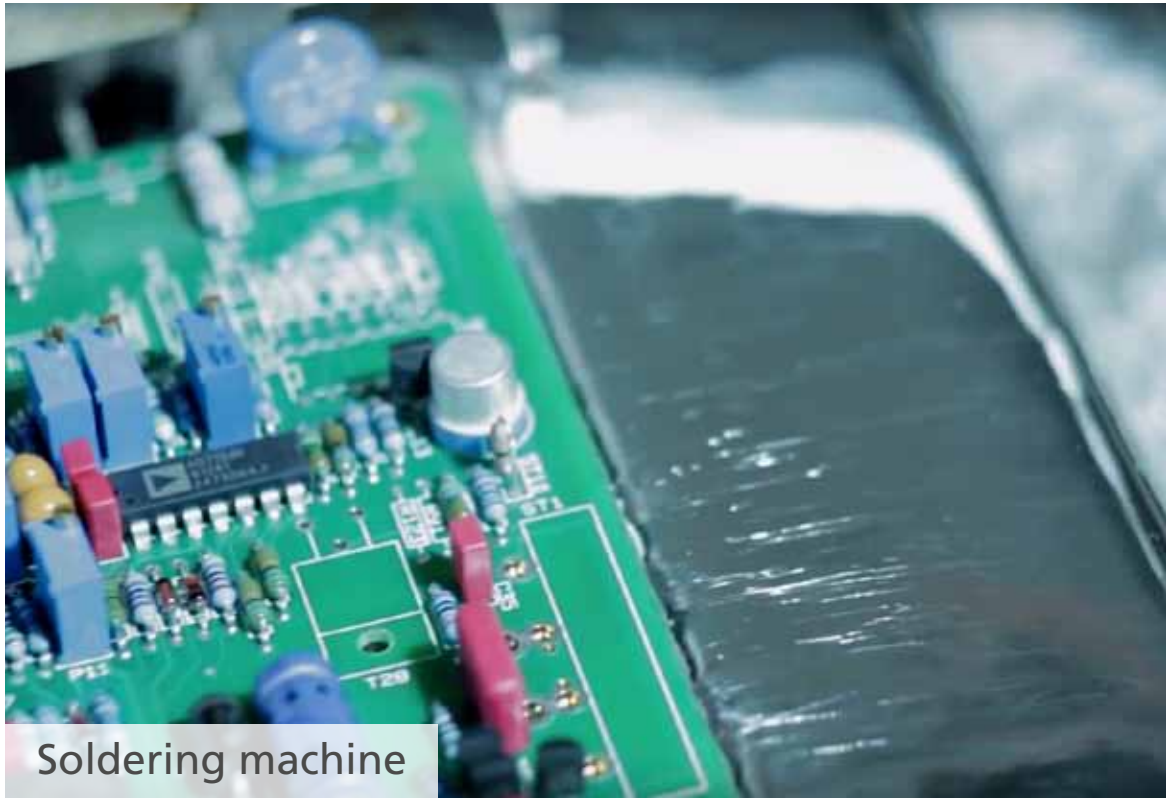
Warehouse management

Production DC-Sources

HEADQUARTER



Punching machine



Soldering machine

CNC machine

Winding room

ORGANIGRAMM

Executive

Eric Keim, Dipl. Engineer

Sales

Sales Manager
Roland Kosmowski

Sales
Markus Dick
Carola Christ

Order Processing
Margit Immel
Frauke Kneis

Sales England
Luca Fiore
Randolph MC Donald

Sales France
François Lantelme

Sales Asia
Seong-Kyu Lee
Young-Meen Choi

Sales China
Li Xiaoke

Sales Middle East
Adnan Kolbasi

Distributors and OEM-partners in domestic and foreign

Logistics

Logistics Manager
Andreas Wiesemann

Materials Sourcing
Alexandra Geschwill
Carola Christ

Area goods receipt repairs and complaints
Sabine Falke

Subfield Components and material requirements
Niadina Schobert

Subfield Metal and semi-finished
Sabine Falke

Area shipping
Sabine Falke

Development

Director of Development
Herrmann Amtsberg

Power supplies
Wolfgang Schmidtmar

LAB/HP + LAB/S
Herrmann Amtsberg
Sascha Jelinski

EAC + ELP + LAB
Uwe Schneider

Conception and software
Ulrich Grosse
Stefan Puff

Production

Head of Production
Andreas Wiesemann

EAC/LAB/SL/SP+ELP
Heiko Bloch
Michael Heim
Matthias Jacobi

LAB/SM
Loris Scarpaci
Klaus Steiner

Power supplies
Wolfgang Schmidtmar
Oleg Smilyansky

LAB/HP
Helmut Steger
Loris Scarpaci

Coilware
Anette Zöller

Metal processing and semi-finished stock
Sabine Falke

Component, material, stock
Nadina Schobert

Administration

Area Accounting and human Resources
Rolf Hermann

Area calculation costing material Costing

Area IT support and backup
Frank Kleiner
Michael Schmidt

Department

QS Officer
Roland Kosmowski

EMPLOYEES

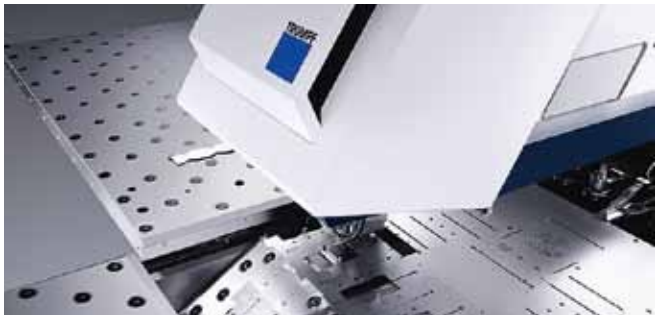
IN TOTAL
40 EMPLOYEES

- 1 in quality
- 5 in engineering
- 6 in administration
- 26 in production
- 2 trainees

ENGINEERING / PRODUCTION

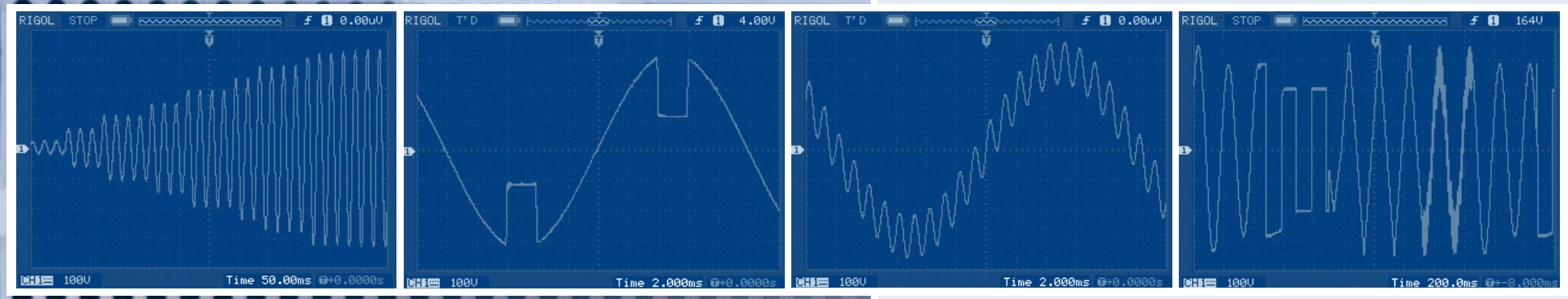
HIGH VERTICAL INTEGRATION

- Our Own Engineering group with wide PSU experience
- Our Own in house Assembly lines
- Our Own sheet Metal production department
- Our Own magnetic winding production lines
- Our Own in house EMC/EMI laboratory
- MEANS **FAST TIME TO MARKET!**

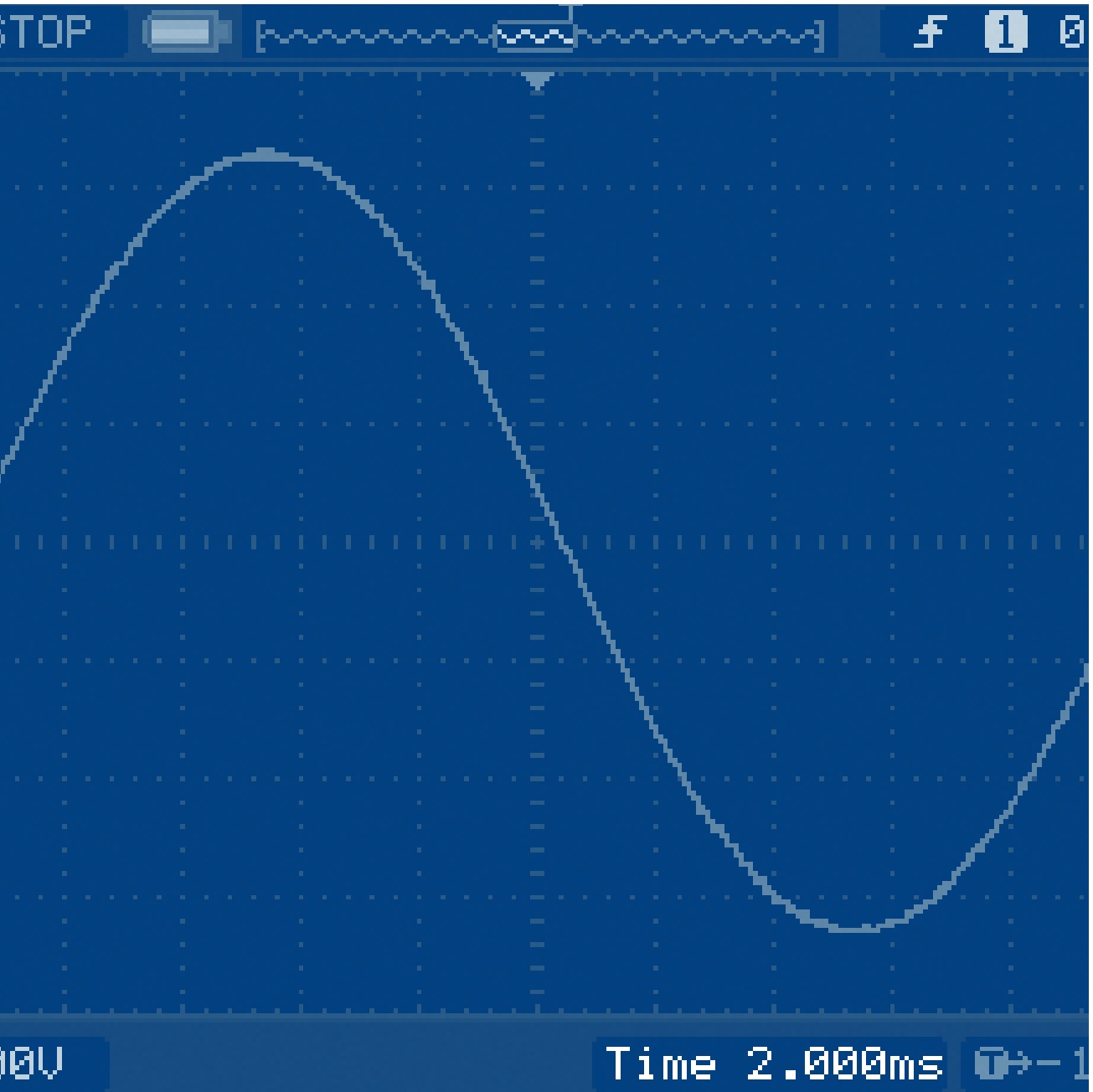


ELECTRONIC AC-SOURCES 250 – 36.000 VA

- Replication of 1 and 3-phase networks (worldwide)
- AC / DC operation
- Output voltages
  0 – 700 V AC / 1,000 V DC per phase
- Variable frequency of up to 2,000 Hz, sinus, square and triangle wave forms
- Maximum currents up to 2,000 A per phase
- Digital interfaces IEEE, RS-232/485, USB, LAN



MOTOR-CONTROLLED AC-SOURCES 500 – 50.000 VA



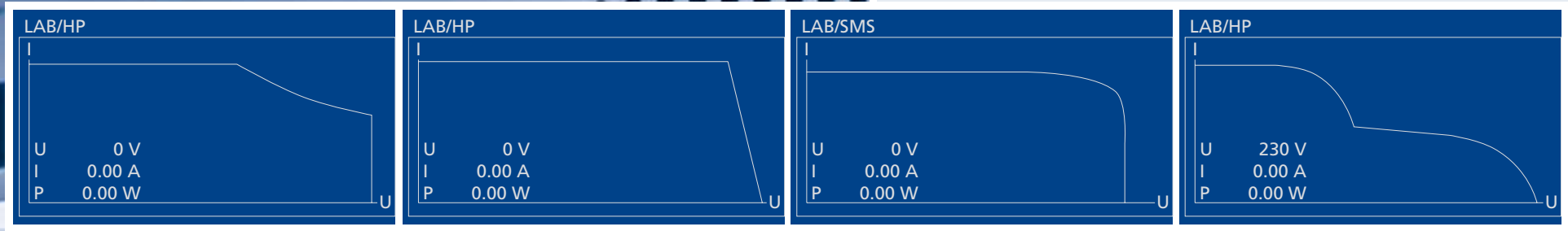
- Motor control
- Controllable via potentiometer
- 19“ insertion technology
- High output performance
- Digital display for voltage and current
- Analog interfaces 0 – 5 (10) VDC for setting and readback
- Also available as ATE version
- Digital interfaces IEEE, RS-232/485, USB, LAN
- Special versions upon request

AC-SOURCE 15 kVA – 2.000 kVA

- Touch Screen
- High Efficiency
- General mode
- Step Mode
- Gradual Change Mode

PRIMARY SWITCH-MODE DC SOURCES 500 W – 120.000 W

- Efficiency up to 94 %
- Compact design
- Active parallel mode
- Simple front panel operation
- Constant current, voltage, resistance and power operation
- VI, VIP, VIR Modes & Simulation of PV-Arrays
- Script control: process programming and booting from memory card
- User defined output characteristics created via memory card or digital interface
- Digital interfaces IEEE 488.2 (GPIB), RS-232/485, USB and LAN



PRIMARY SWITCH-MODE DC SOURCES 500 W – 120.000 W

- Galvanically isolated analogue Interface 0 – 5 V or 0 – 10 V (user selectable)
- Power increased easily through modular design: Parallel, series, matrix or multiload master-slave-operation
- Storable V/I wave forms (e.g. for PV simulation and sequential control)
- Large graphical display with clear indication of actual output values
- Special versions available on request
- Data logging function: Output values can be saved at adjustable intervals to a memory card
- Stand-alone test rig possibility with script operation in combination with data logging function
- Adjustable OVP, Vmax and Imax in addition to normal output voltage and current limit settings

DC-SOURCES & SINKS with regenerative capability

- Full bidirectional operation made possible by grid-tie source sink technology
- Product line with various output voltages: 60, 100, 150, 300, 600, 800, 1.000, 1.200, 1.500 VDC
- Constant voltage (0 to 100 %), constant current (0 to 100 %), constant power operation (5 to 100 %) with automatic and fast crossover as well as mode indication and internal resistance simulation
- Compact design featuring integrated EMI and sine filters
- Power categories from 5 to 30 kW are available for each nominal output voltage
- Primary switched and galvanic isolated power supplies
- Extended product range with various extras and optional accessories

NEW PRODUCT

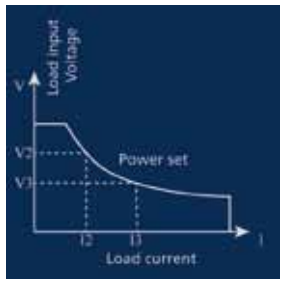
DC-SOURCES & SINKS with regenerative capability

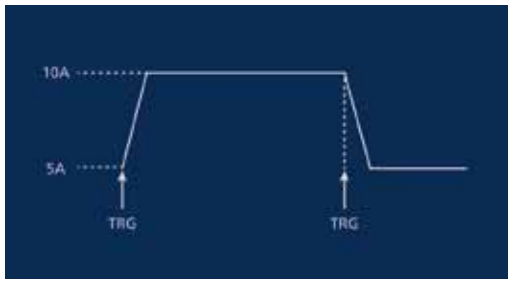
- Power increased easily through modular design: Parallel, series, matrix or multiload master-slave-operation
- Low cost while maintaining high efficiency by applying innovative IGBT and transformer technology
- Full digital control and regulation
- CE conformity
- Smart functions for monitoring
- Easy to use operating controls
- Lightweight
- Small footprint
- Air-cooling enclosures
- Customized designs
- Made in Germany

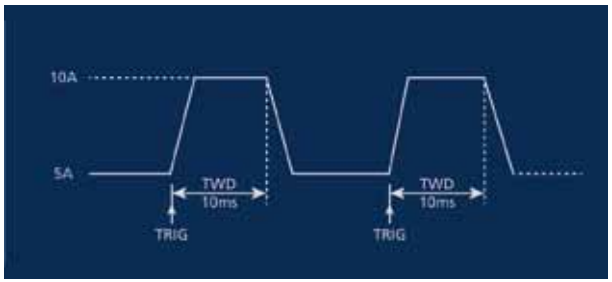
Bidirectional
High-Power DC Supply

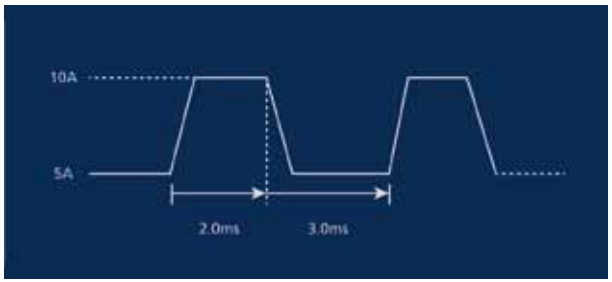
ELECTRONIC LOADS 150 W – 200.000 W

- 6 different operating types:
  CC, CR, CV, CP, CC+CV and CR+CV
- Protection against overcurrent, over-voltage, overload, excessive temperature and inverse polarity protection
- High-resolution display
- Programmable soft start depending on temperature and preset voltage
- Battery test and short-circuit function
- External trigger function, input and output
- Dynamic test, adjustable rise and fall times







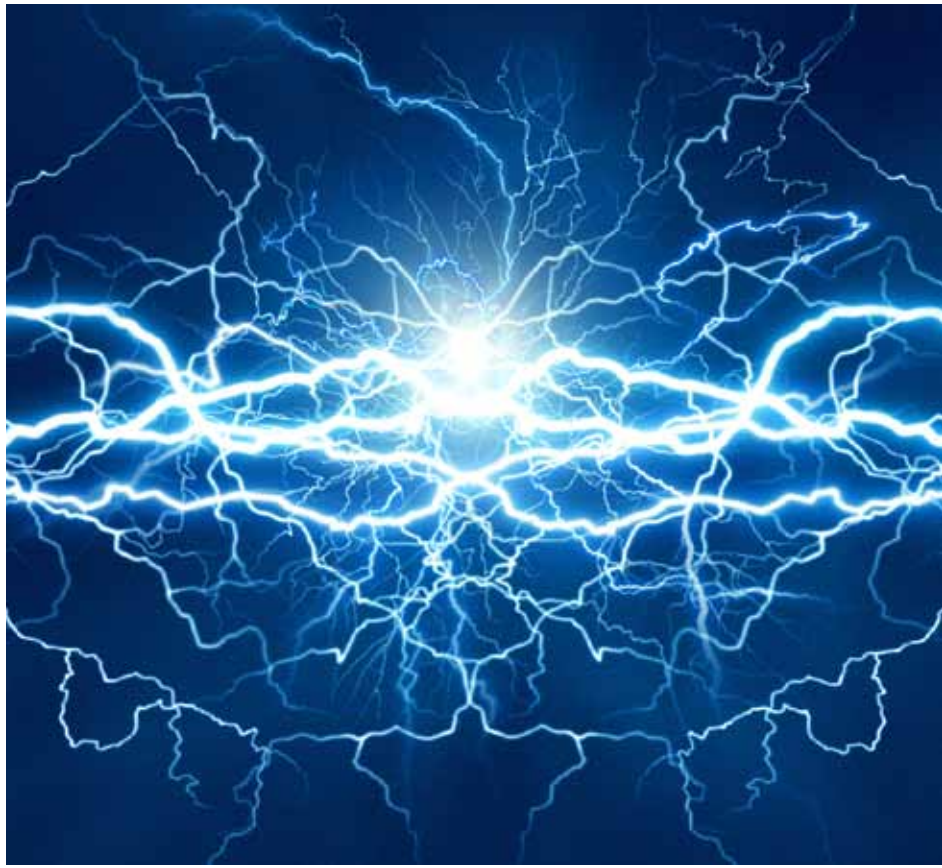


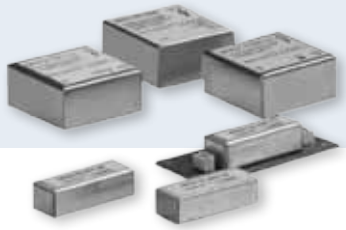
POWER SUPPLIES 75 W – 5.000 W

- Compact design
- DC inputs
- Single output
- Overload and excess temperature protection
- I / U constant characteristic curves
- Temperature-controlled output
- Output floating
- Active power distribution (n+1)
- U and I programmable, 0 – 5 V or 0 – 10 V
- Up to 94 % efficiency
- Convection and fan-cooled
- High reliability
- Special versions upon request

HIGH VOLTAGE 0,2 W – 10.000 W

- High-quality DC sources with minimal residual ripple, typically 0.01 %
- Constant U and I preset and readable
- 3 1/2-digit LED display for U and I
- Output is potential-free
- Best control data, U / I constant
- Operational mode display of constant voltage / constant current via LED
- Digital 12-bit interface : RS-232/485, IEEE 488, USB
- Also available as ATE device





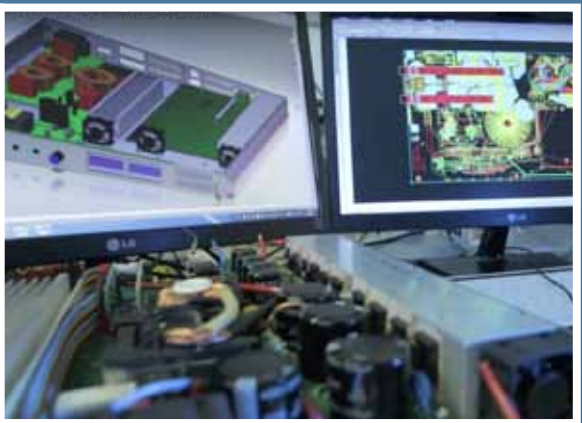
INVERTER 50 – 48.000 VA

- True sinus wave
- Short-circuit and overload protection
- Shutdown if overload and overheating
- Compact design
- High reliability
- Standby detection
- RS-232 interface

HIGH PERFORMANCE DC SOURCES up to 1 MW

- SCR / IGBT regulated power supply
- Currents up to 50,000 A
- Voltages up to 600 V DC
- Voltage range 0 – Vmax
- Current range 0 – Imax
- Right ripple 5 % opt. 1 %
- Constant voltage and constant current operation

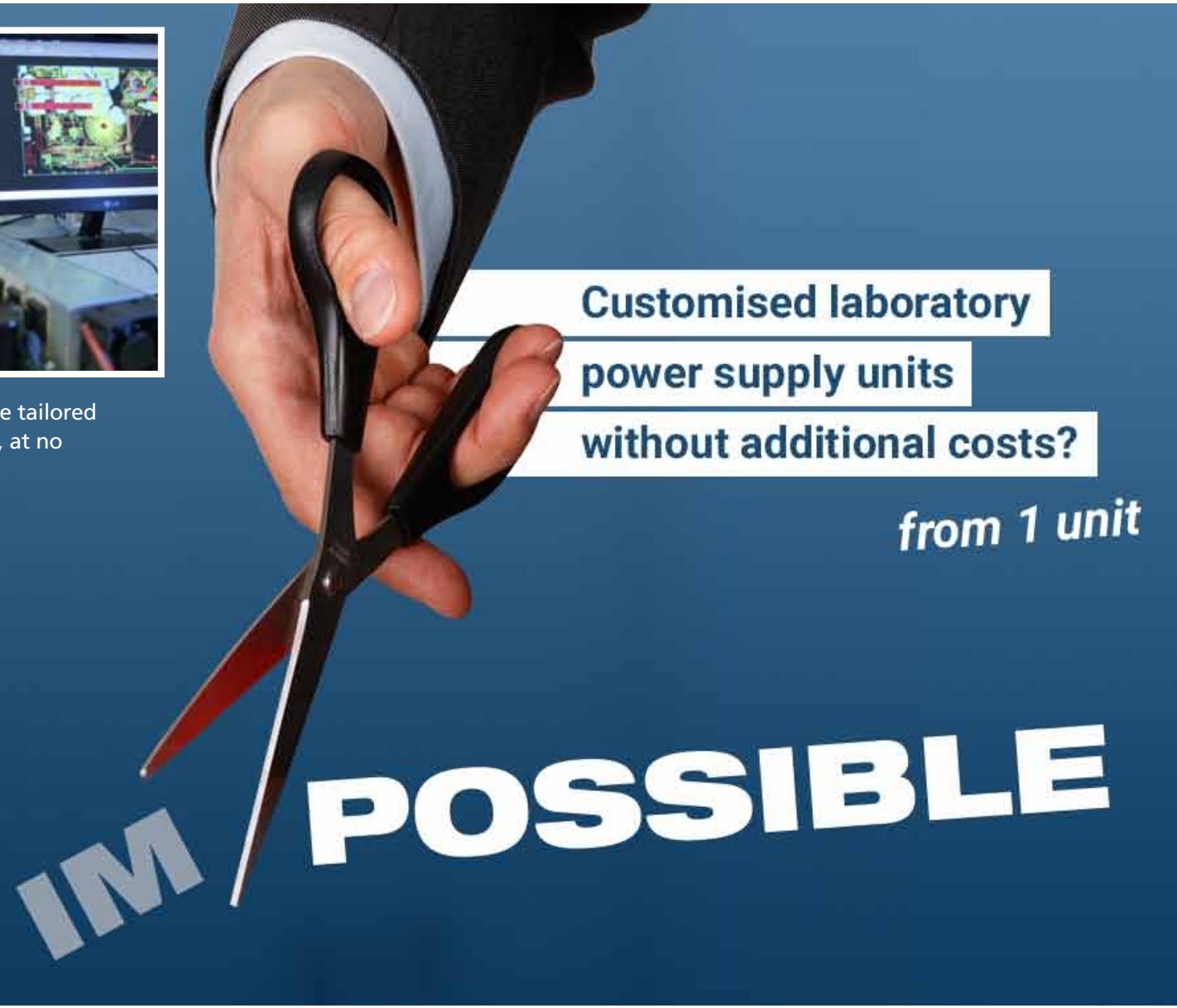
LABORATORY POWER SUPPLY UNITS customised



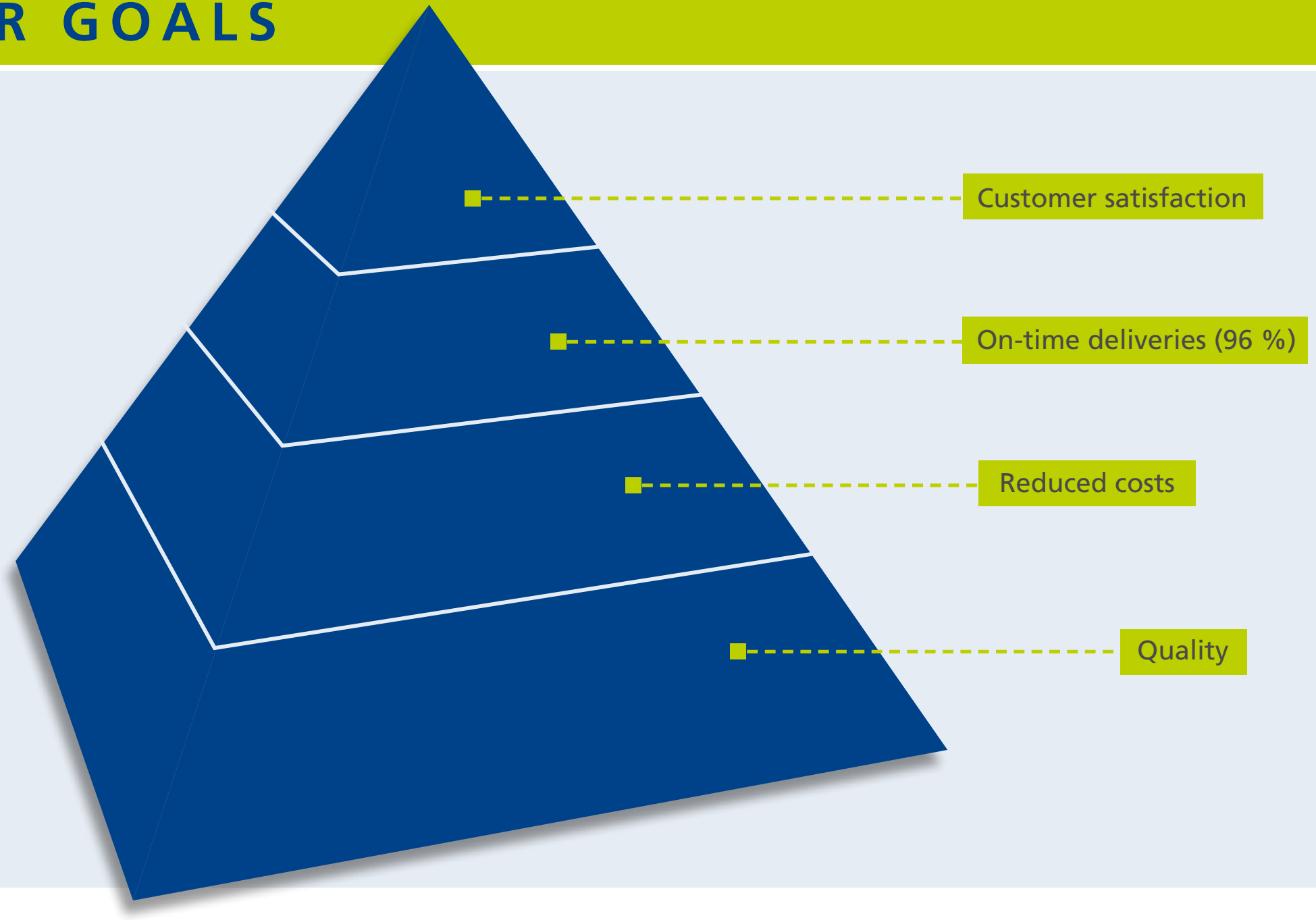
We want to offer you laboratory power supply units which are tailored exactly to your needs. Starting from an order quantity of one, at no additional cost!

Modifications can be made to the following parameters:

- **Voltages**
- **Current**
- **Frequencies**
- **Individual functional adjustments**
- **Rise/fall times**
- **Output ripple**
- **Load conditions/applications**
- **Interfaces**
- **Signal shapes**
- **Temperature ranges**
- **Mounting options**



OUR GOALS


Customer satisfaction
On-time deliveries (96 %)
Reduced costs
Quality

ISO 9001 CERTIFICATION

DEVELOPMENT | PRODUCTION | SALES

AC- and DC-Sources | Electronic loads
Inverters | Power Supplies
DC-Sources / Sinks with network feedback

Essential permits such as CSA, UL, VDE, TÜV etc. are issued quickly and flexibly by qualified personnel.

Approval procedures are carried out as part of development planning and thus do not negatively impact the production start.

Constant manufacture monitoring by accredited inspection centers and quality management according to ISO 9001 guarantee consistently high series quality.

OUR REFERENCES

- Aesculap, Tuttlingen
- Airbus Industries, HH
- Air Force, Holland
- Alcatel Dunkermotoren
- Artesyn, Frankfurt
- BASF, Ludwigshafen
- BHEL, Bophal Indien
- Bosch, Leinfelden
- Bosch, Plochingen
- Bosch, Stuttgart
- Bürkhard Werke,
- Charlottes Web, Israel
- Diehl, Nuremberg
- ETAS, Stuttgart
- Erricson, Sweden
- FRIWO, Ostbevern
- GE Power Controls
- Hekatron, Sulzburg
- Heidelberger Druck, HD
- Heitec, Erlangen
- IBM, Berlin
- Jen-Optik Laser, Jena
- Jen-Optronik, Jena
- KIT, Karlsruhe
- Lufthansa Technik, Hamburg
- Lufthansa, Frankfurt
- MPI/XP, CH-Baden
- Noske-Kaeser, New Zealand
- Nortelco, Norway
- OCE, Poing
- Pepperl&Fuchs, Mannheim
- Philips, Eindhoven
- Quel, Alzenau
- Rhode & Schwarz
- Rademacher GmbH&CoKG
- Siemens, Chemnitz
- Siemens, CH- Volketswil
- Siemens, Krefeld
- Spectro, Cleves
- Technical Trading, Syria
- Teldix, Heidelberg
- Tyco, Viernheim
- Ultra X Laborgeräte, Lage
- Varta, Ellwangen
- Wagner Brandschutzsysteme
- XP Power GmbH, Bremen
- Yokogawa, UK
- Zeiss, Oberkochen