BICKER.de
ELEKTRONIK

# NONSTOP POWER

## UNINTERRUPTIBLE POWER SUPPLIES

SOLUTIONS FOR
PROFESSIONALS
MADE BY BICKER

www.bicker.de

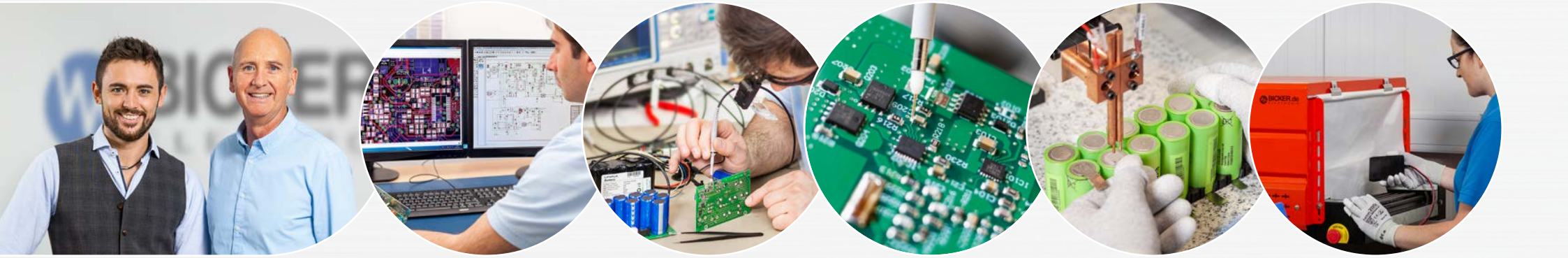
# SAFETY MADE IN GERMANY

## RELIABLE UPS SOLUTIONS FOR PROFESSIONALS

### Power failure? Brownout? Flicker?

Our particularly reliable and well featured UPS solutions with latest energy storage technologies ensure the uninterruptible power supply of sensitive and process-relevant systems. Voltage fluctuations, flicker or failures of the DC mains often cause fatal consequences for critical applications. The UPSI system offers maximum safety for your business. Please feel free to contact us, our team will be happy to help you find the best UPS solution for your specific needs.

Tom & Markus Bicker
CEO's of Bicker Elektronik GmbH



SOLUTIONS FOR
PROFESSIONALS
MADE BY BICKER

# PROTECT YOUR APPLICATION

## RELIABLE UPS SOLUTIONS FOR PROFESSIONALS

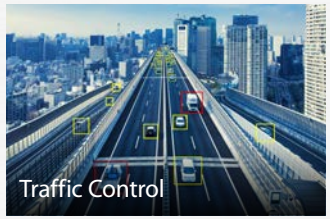
### ***Uninterruptible*** *Power Supply System*

- Fail-safe protection for 12V / 24V DC applications
- Uncompromising quality – Made in Germany
- Modular and 'All-In-One' solutions available
- Intelligent and flexible charging technology
- Scalable portfolio of energy storage devices
- Integrated communication interfaces and relays
- Shutdown & Reboot for IPC systems
- Well-featured software for extended functionality
- Pre-programmable for self-sufficient operation
- Extended operating temperature ranges
- Reliable 24/7 continuous operation
- Excellent service and support
- Long-term availability

Open-Frame

DIN-Rail

IP Housing



# ENERGY STORAGE TECHNOLOGY

## ***Supercap*** *Energy Packs*

- Maintenance-free and fast charging EDLC technology
- Ideal for short & medium backup times
- Particularly high cycle stability > 500,000
- Cell balancing for extended lifetime
- Temperature range from -20 °C up to +70 °C

## ***LiFePO4*** *Battery Packs*

- Safe 10-year lithium iron phosphate technology
- Ideal for long backup times
- Up to 6,000 life cycles
- Integrated high performance BMS
- Temperature range from -20 °C up to +55 °C

**SOLUTIONS FOR**
**PROFESSIONALS**
**MADE BY BICKER**

# SOLUTIONS OVERVIEW

## FINDING THE BEST UPS FOR YOUR NEEDS

| PRODUCT | $V_{IN}$ | $V_{OUT}$ | $I_{OUT}$ | $P_{OUT}$ | BACKUP TIME | DESIGN / ENERGY PACK | SPECIAL FEATURE | PAGE |
|---|---|---|---|---|---|---|---|---|
| **UPSI DP \| All-In-One \| DIN-Rail** | | | | | | | | |
| UPSI-2406DP1 | 24 | 24 | 4 | 96 | 12 Min @ 96 W | DIN-Rail / Li-Ion | Energy pack inside / Certified to IEC/EN/UL/CSA 61010-1 / -2-201 | 08 |
| UPSI-2406DP2 | 24 | 24 | 4 | 96 | 35 Sec @ 96 W | DIN-Rail / Supercaps | Energy pack inside / Certified to IEC/EN/UL/CSA 61010-1 / -2-201 | 08 |
| UPSI-2406DP3 | 24 | 24 | 6 | 144 | 11 Min @ 144 W | DIN-Rail / LiFePO4 | Energy pack inside | 08 |
| UPSI-1208DP2 | 12 | 12 | 8 | 96 | 33 Sec @ 96 W | DIN-Rail / Supercaps | Energy pack inside | 08 |
| UPSI-1208DP3 | 12 | 12 | 8 | 96 | 13 Min @ 96 W | DIN-Rail / LiFePO4 | Energy pack inside | 08 |
| UPSI-2412DP2 | 24 | 24 | 10 | 240 | 39 Sec @ 240 W | DIN-Rail / Supercaps | Energy pack inside | 08 |
| UPSI-2412DP3 | 24 | 24 | 10 | 240 | 14.5 Min @ 240 W | DIN-Rail / LiFePO4 | Energy pack inside | 08 |
| **UPSIC / DC2412 \| All-In-One \| Open-Frame** | | | | | | | | |
| UPSIC-2403 | 24 | 24 | 3 | 72 | 15 Sec @ 60 W | Open-Frame / Supercaps | | 10 |
| UPSIC-1205 | 12 | 12 | 5 | 60 | 15 Sec @ 60 W | Open-Frame / Supercaps | | 10 |
| DC2412-UPS | 16–32 | 12 | 5 | 60 | 15 Sec @ 60 W | Open-Frame / Supercaps | 24 V to 12 V | 10 |
| DC2412-UPSP2 | 16–32 | 12 | 5 | 60 | 60 Sec @ 60 W | Open-Frame / Supercaps | 24 V to 12 V | 10 |
| **UPSI-IP \| IP65/67 \| IP Housing** | | | | | | | | |
| UPSI-2406IP-12U | 24 | 24 | 6 | 144 | 11 Min @ 144 W | IP65/67 Housing / LiFePO4 | Shock and vibration tested to EN 60068-2-27 / EN 60068-2-6 | 12 |
| UPSI-2406IP-26UW | 8–36 | 24 | 1.25–6 A | 30–144 W | 31 Min @ 144 W | IP65/67 Housing / LiFePO4 | | 12 |
| UPSI-1208IP-11U | 12 | 12 | 8 | 96 | 13 Min @ 96 W | IP65/67 Housing / LiFePO4 | Shock and vibration tested to EN 60068-2-27 / EN 60068-2-6 | 12 |
| UPSI-1208IP-23UW | 7–36 | 12 | 4.17–8 A | 50–96 W | 1.25 Min @ 96 W | IP65/67 Housing / Supercaps | | 12 |

| PRODUCT | $V_{IN}$ | $V_{OUT}$ | $I_{OUT}$ | $P_{OUT}$ | BACKUP TIME | DESIGN / ENERGY PACK | SPECIAL FEATURE | PAGE |
|---|---|---|---|---|---|---|---|---|
| **UPSI \| Modular \| Open-Frame** | | | | | | | | |
| UPSI-1208 | 12 | 12 | 8 | 96 | Open-Frame | Easy System Integration | | 14 |
| BP-LFP-10250S | | | | | 125 Min @ 96 W | Shrink Pack / LiFePO4 | Long Time Backup | 14 |
| BP-LFP-1025S | | | | | 13 Min @ 96 W | Shrink Pack / LiFePO4 | Up to 6,000 Life Cycles | 14 |
| BP-SUC-10066 | | | | | 72 Sec @ 96 W | Open-Frame / Supercaps | Maintenance-free | 14 |
| BP-SUC-1033 | | | | | 34 Sec @ 96 W | Open-Frame / Supercaps | Maintenance-free | 14 |
| UPSI-2406 | 24 | 24 | 6 | 144 | Open-Frame | Easy System Integration | | 14 |
| BP-LFP-13250S | | | | | 110 Min @ 144 W | Shrink Pack / LiFePO4 | Long Time Backup | 14 |
| BP-LFP-1375 | | | | | 31 Min @ 144 W | Shrink Pack / LiFePO4 | Up to 6,000 Life Cycles | 14 |
| BP-LFP-1325S | | | | | 11 Min @ 144 W | Shrink Pack / LiFePO4 | Up to 6,000 Life Cycles | 14 |
| BP-SUC-16090 | | | | | 65 Sec @ 144 W | Open-Frame / Supercaps | Maintenance-free | 14 |
| BP-SUC-1645 | | | | | 34 Sec @ 144 W | Open-Frame / Supercaps | Maintenance-free | 14 |
| UPSI-2412 | 24 | 24 | 10 | 240 | Open-Frame | Easy System Integration | | 14 |
| BP-LFP-2725 | | | | | 14.5 Min @ 240 W | Shrink Pack / LiFePO4 | Up to 6,000 Life Cycles | 14 |
| BP-SUC-30090 | | | | | 34 Sec @ 240 W | Open-Frame / Supercaps | Maintenance-free | 14 |
| **UPSI-D \| Modular \| DIN-Rail** | | | | | | | | |
| UPSI-1208D | 12 | 12 | 8 | 96 | DIN-Rail | | | 16 |
| BP-LFP-1025D | | | | | 13 Min @ 96 W | DIN-Rail / LiFePO4 | Up to 6,000 Life Cycles | 16 |
| BP-SUC-10066D | | | | | 72 Sec @ 96 W | DIN-Rail / Supercaps | Maintenance-free | 16 |
| BP-SUC-1033D | | | | | 34 Sec @ 96 W | DIN-Rail / Supercaps | Maintenance-free | 16 |
| UPSI-2406D | 24 | 24 | 6 | 144 | DIN-Rail | | | |
| BP-LFP-1375D | | | | | 31 Min @ 144 W | DIN-Rail / LiFePO4 | Up to 6,000 Life Cycles | 16 |
| BP-LFP-1325D | | | | | 11 Min @ 144 W | DIN-Rail / LiFePO4 | Up to 6,000 Life Cycles | 16 |
| BP-SUC-16090D | | | | | 65 Sec @ 144 W | DIN-Rail / Supercaps | Maintenance-free | 16 |
| BP-SUC-1645D | | | | | 34 Sec @ 144 W | DIN-Rail / Supercaps | Maintenance-free | 16 |
| UPSI-2412D | 24 | 24 | 10 | 240 | DIN-Rail | | | |
| BP-LFP-2725D | | | | | 14.5 Min @ 240 W | DIN-Rail / LiFePO4 | Up to 6,000 Life Cycles | 16 |
| BP-SUC-30090D | | | | | 34 Sec @ 240 W | DIN-Rail / Supercaps | Maintenance-free | 16 |
| **UPSI-IP \| AC/DC \| IP Housing** | | | | | | | | |
| UPSI-2406IP-38AC | 90–264 V AC | 24 | 6 | 144 | 110 Min @ 144 W | IP65 Housing / LiFePO4 | AC input / DC output / Certified to IEC/EN 62040-1 | 18 |

# UPSI-DP ALL-IN-ONE

## 12 & 24 VDC / DIN-RAIL

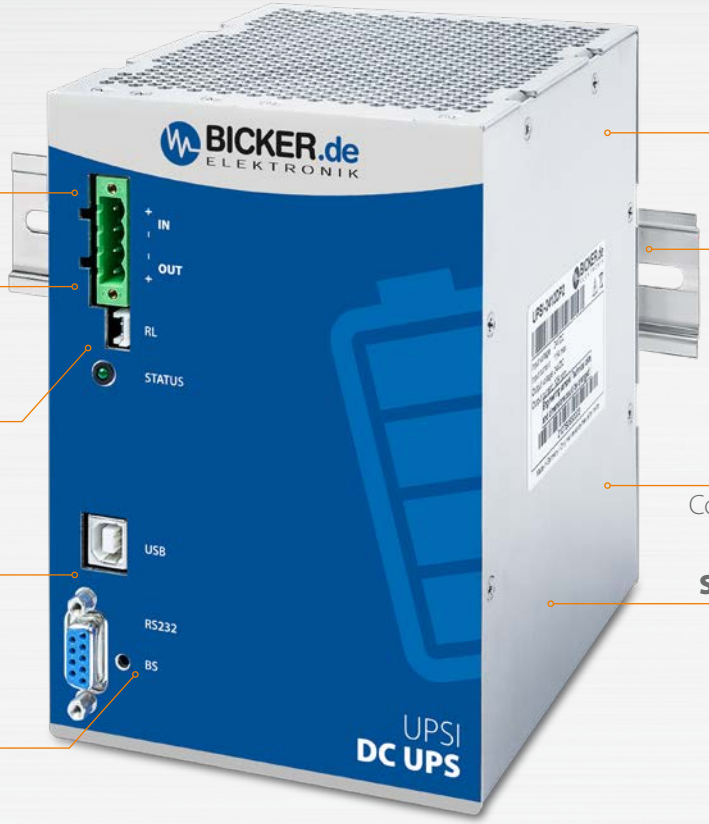
**DC INPUT**
Intelligent power sharing

**BUFFERED DC OUTPUT**
Regulated output voltage

**RELAY CONTACT**
Configurable & potential-free

**USB & RS232**
Communication interfaces

**BATTERY START**
Initial system start via battery




**HIGH QUALITY**
Made in Germany

**DIN-RAIL MOUNT**
Aluminium chassis

**INTEGRATED ENERGY STORAGE**
Compact All-In-One system

**SHUTDOWN & REBOOT**
IPC control functions

**Backup times & specifications**
The presented energy storage devices offer specific backup levels. Find more information on page 6/7 or www.bicker.de

**All-In-One DC UPS solution**
Powerful DIN-Rail units with integrated UPS controller, charger and energy storage device.

**Extended temperature range**
UPS and Supercaps / LiFePO4 energy storage operate from -20 °C up to +70 °C / +55 °C.

**'UPSGen2 Configuration' software**
Extended functionality, monitoring and pre-parameterizing for self-sufficient operation.

## UPS / Supercaps Inside

### 24V

**UPSI-2406DP2**
96 W / 24 VDC / 4 A

**UPSI-2412DP2**
240 W / 24 VDC / 10 A

### 12V

**UPSI-1208DP2**
96 W / 12 VDC / 8 A

## UPS / LiFePO4 Inside

### 24V

**UPSI-2406DP3**
144 W / 24 VDC / 6 A

**UPSI-2412DP3**
240 W / 24 VDC / 10 A

### 12V

**UPSI-1208DP3**
96 W / 12 VDC / 8 A

## UPS / Li-Ion Inside

### 24V

**UPSI-2406DP1**
96 W / 24 VDC / 4 A

**Product videos**

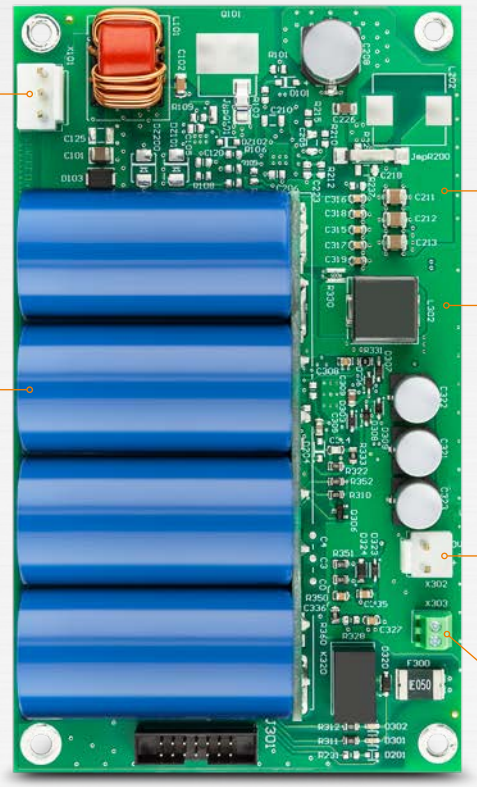
You can find numerous product videos about the DC UPS solutions on our website www.bicker.de at the respective product as well as on Youtube – please scan the QR code to go directly to our channel:

# UPSIC / DC2412 ALL-IN-ONE

## 12 & 24 VDC / OPEN-FRAME

**DC INPUT**
Intelligent power sharing

**INTEGRATED SUPERCAPS (EDLC)**
Maintenance-free energy storage with high cycle stability >500,000



**HIGH QUALITY**
Made in Germany

**COMPACT DESIGN**
Space-saving integration

**BUFFERED DC OUTPUT**
Regulated output voltage

**RELAY CONTACT**
Power Fail signal

**Backup times & specifications**
The presented energy storage devices offer specific backup levels. Find more information on page 6/7 or www.bicker.de

**Quickly ready for use**
Compact UPS solution with very fast-charging and maintenance-free Supercaps.

**Extended temperature range**
Integrable Supercap-buffered UPS modules operate from -20 °C up to +70 °C.

**'UPS Control Center' software**
Data monitoring, setup and parametrization of UPS modules **(with PSZ-1063)**

## UPS / Supercaps Modules

24V

**UPSIC-2403**
72 W / 24 VDC / 3 A

12V

**UPSIC-1205**
60 W / 12 VDC / 5 A

12V

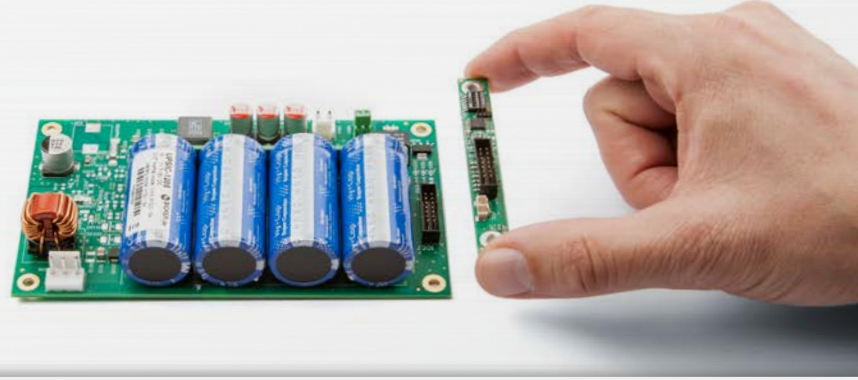
WIDE INPUT 16–32 VDC

**DC2412-UPS**
60 W / 12 VDC / 5 A

WIDE INPUT 16–32 VDC

**DC2412-UPSP2**
60 W / 12 VDC / 5 A

**PSZ-1063 µExtension**
The optional available add-on module offers additional features like realtime data monitoring, reboot function and output enable from 90 % Supercap capacity. Extended functionality via RS232 RxD- and TxD communication is enabled, too. Operation at host is possible without software.



# UPSI-IP IP65/67

## 12 & 24 VDC / IP HOUSING

**HIGH QUALITY**
Made in Germany

**INTEGRATED ENERGY STORAGE**
All-In-One solution

**IP65/67 PROTECTION**
Aluminium housing

**DC INPUT**
Intelligent power sharing

**BUFFERED DC OUTPUT**
Regulated output voltage

**USB**
Communication interface

**PRESSURE COMPENSATION**
Membrane element

**Backup times & specifications**
The presented energy storage devices offer specific backup levels. Find more information on page 6/7 or www.bicker.de

**Outdoor UPS with IP65/67 protection**
Sealed aluminium housing elements and connections are resistant to water, ice, oil and dust.

**Extended temperature range**
UPS and Supercaps / LiFePO4 energy storage operate from -20 °C up to +70 °C / +55 °C.

**'UPSGen2 Configuration' software**
Extended functionality, monitoring and pre-parameterizing for self-sufficient operation.

## UPS / LiFePO4 Inside

### 24V

**UPSI-2406IP-12U**
144 W / 24 VDC / 6 A

WIDE INPUT 8–36 VDC

**UPSI-2406IP-26UW**
110 W / 24 VDC / 4.6 A

### 12V

**UPSI-1208IP-11U**
96 W / 12 VDC / 8 A

## UPS / Supercaps Inside

WIDE INPUT 7–36 VDC

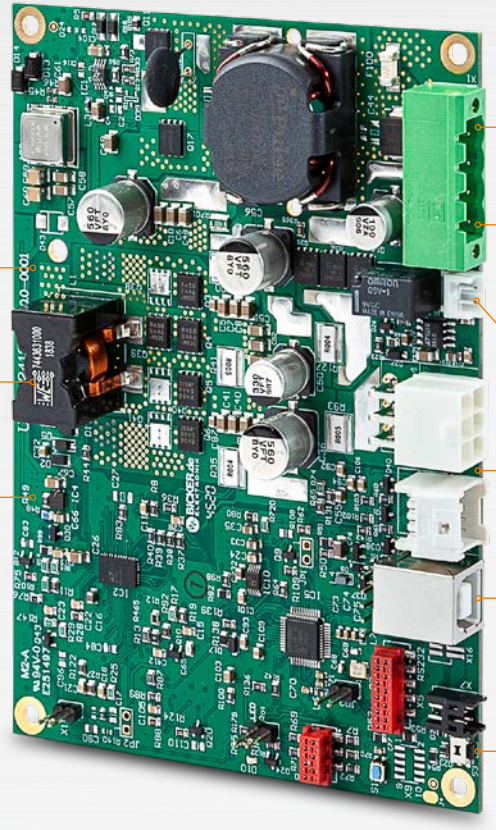
**UPSI-1208IP-23UW**
96 W / 12 VDC / 8 A

### Cable connection set

The scope of delivery includes a resilient 3m USB cable as well as a set of power cables (input/output) of 3m length each (can be shortened as required). Please contact us for customized cable assemblies.

# UPSI MODULAR

## 12 & 24 VDC / OPEN-FRAME



**HIGH QUALITY**
Made in Germany

**PLUG & PLAY**
Easy installation

**SHUTDOWN & REBOOT**
IPC control functions

**DC INPUT**
Intelligent power sharing

**BUFFERED DC OUTPUT**
Regulated output voltage

**RELAY CONTACT**
Configurable & potential-free

**BATTERY POWER & DATA**
Powerful charger
Flexible modes CC / CV / CP

**USB & RS232**
Communication interfaces

**BATTERY START**
Initial system start via battery

**Backup times & specifications**
The presented energy storage devices offer specific backup levels. Find more information on page 6/7 or www.bicker.de

**Modular & scalable UPS solution**
Select the performance and energy storage class that perfectly fits to your application.

**Extended temperature range**
UPS and Supercaps / LiFePO4 energy storage operate from -20 °C up to +70 °C / +55 °C.

**'UPSGen2 Configuration' software**
Extended functionality, monitoring and pre-parameterizing for self-sufficient operation.

## UPS

## LiFePO4 Battery Packs

## Supercap Energy Packs

### 24V

**UPSI-2406**
144 W / 24 V DC / 6 A

**BP-LFP-13250S**
330 Wh

**BP-LFP-1375**
99 Wh

**BP-LFP-1325S**
33 Wh

**BP-SUC-16090**
13.5 kJ

**BP-SUC-1645**
6.8 kJ

### 24V

**UPSI-2412**
240 W / 24 V DC / 10 A

**BP-LFP-2725**
64 Wh

**BP-SUC-30090**
13.5 kJ

### 12V

**UPSI-1208**
96 W / 12 V DC / 8 A

**BP-LFP-10250S**
247.5 Wh

**BP-LFP-1025S**
25 Wh

**BP-SUC-10066**
9.8 kJ

**BP-SUC-1033**
4.9 kJ

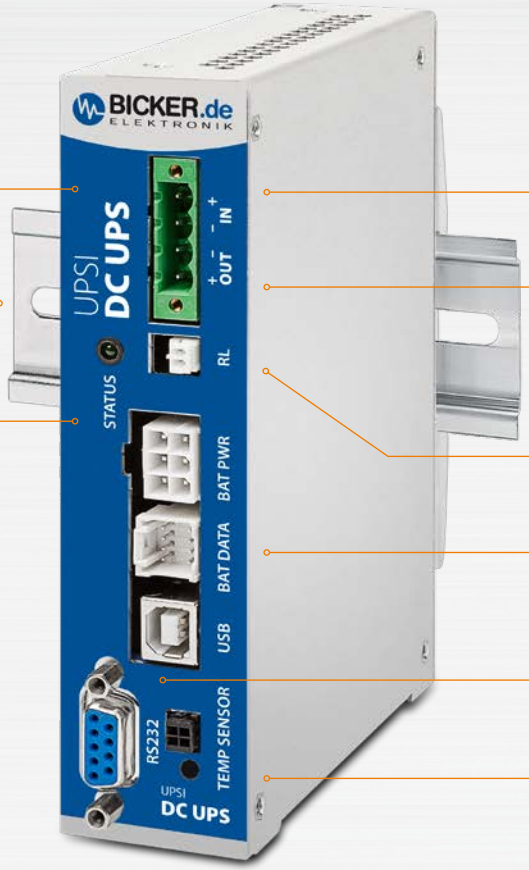
# UPSI-D MODULAR

## 12 & 24 VDC / DIN-RAIL

**HIGH QUALITY**
Made in Germany

**DIN-RAIL MOUNT**
Aluminium chassis

**SHUTDOWN & REBOOT**
IPC control functions




**DC INPUT**
Intelligent power sharing

**BUFFERED DC OUTPUT**
Regulated output voltage

**RELAY CONTACT**
Configurable & potential-free

**BATTERY POWER & DATA**
Powerful charger
Flexible modes CC / CV / CP

**USB & RS232**
Communication interfaces

**BATTERY START**
Initial system start via battery

**Backup times & specifications**
The presented energy storage devices offer specific backup levels. Find more information on page 6/7 or www.bicker.de

**Modular & scalable UPS solution**
Select the performance and energy storage class that perfectly fits to your application.

**Extended temperature range**
UPS and Supercaps / LiFePO4 energy storage operate from -20 °C up to +70 °C / +55 °C.

**'UPSGen2 Configuration' software**
Extended functionality, monitoring and pre-parameterizing for self-sufficient operation.

## UPS

## LiFePO4 Battery Packs

## Supercap Energy Packs

### 24V

**UPSI-2406D**
144 W / 24 V DC / 6 A

**BP-LFP-1375D**
99 Wh

**BP-LFP-1325D**
33 Wh

**BP-SUC-16090D**
13.5 kJ

**BP-SUC-1645D**
6.8 kJ

### 24V

**UPSI-2412D**
240 W / 24 V DC / 10 A

**BP-LFP-2725D**
64 Wh

**BP-SUC-30090D**
13.5 kJ

### 12V

**UPSI-1208D**
96 W / 12 V DC / 8 A

**BP-LFP-1025D**
25 Wh

**BP-SUC-10066D**
9.8 kJ

**BP-SUC-1033D**
4.9 kJ

# UPSI-IP AC/DC OUTDOOR

## 90-264 VAC / 24 VDC / IP HOUSING

**HIGH QUALITY**
Made in Germany

**PRESSURE COMPENSATION**
Membrane element

**BUFFERED DC OUTPUT**
Regulated output voltage

**IEC/EN 62040-1**
Safety Standard

**IP65 PROTECTION**
Aluminium housing

**INTEGRATED ENERGY STORAGE**
All-In-One solution

**AC INPUT 90–264 VAC**
Intelligent inrush current detection / Active PFC

**Backup times & specifications**
The presented energy storage devices offer specific backup levels. Find more information on page 6/7 or www.bicker.de

**Outdoor UPS with IP65 protection**
Sealed aluminium housing elements and connections are resistant to water, ice, oil and dust.

**Extended temperature range**
IP protected UPS unit with integrated LiFePO4 batteries operates from -20 °C up to +50 °C.

**'UPSGen2 Configuration' software**
Extended functionality, monitoring and pre-parameterizing for self-sufficient operation.

## UPS + LiFePO4 Inside

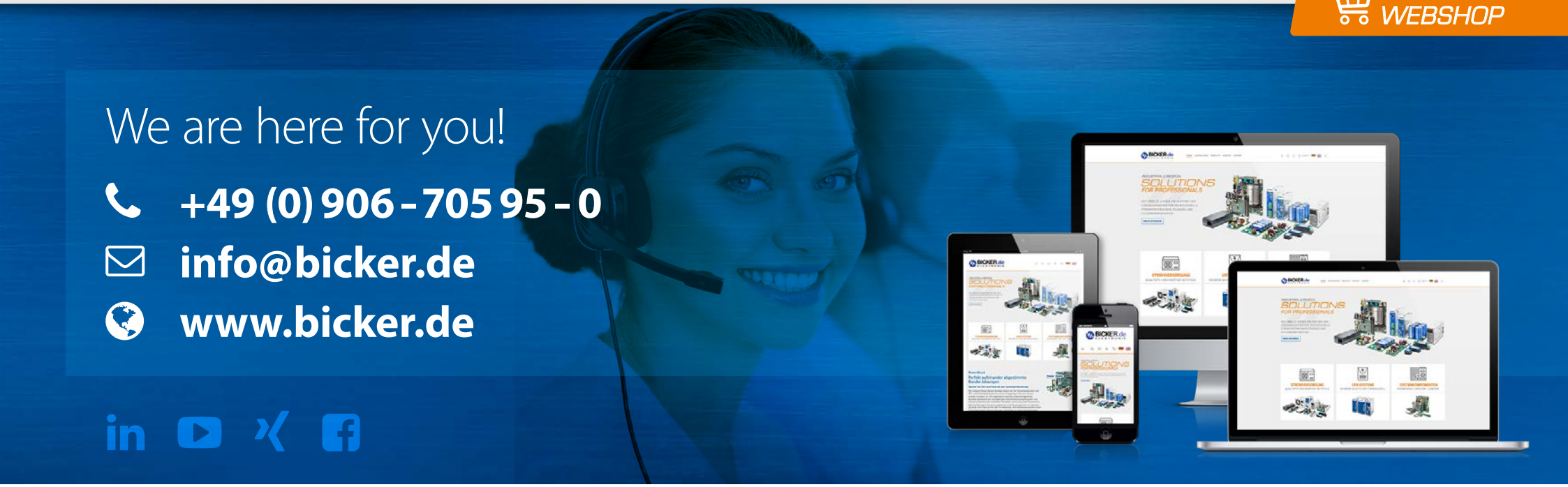
24V

**UPSI-2406IP-38AC**
144W / 24VDC / 6A

### Application examples

The rugged outdoor UPS with AC input is ideal for the uninterruptible 24VDC power supply of sensitive measurement and control applications in the areas of environmental protection, infrastructure, security and traffic control technology.

VISIT OUR WEBSHOP



## We are here for you!

**+49 (0) 906 - 705 95 - 0**

**info@bicker.de**

**www.bicker.de**

**www.bicker.de**

*Note: Subject to errors and technical modifications! The contents of this brochure have been assembled with greatest care and are in line with our current level of information. The current brochure replaces all previous brochures. BE-UPS-R001*


BICKER.de ELEKTRONIK

Bicker Elektronik GmbH
Ludwig-Auer-Straße 23
86609 Donauwörth · Germany
Tel. +49 (0) 906 - 705 95-0
Fax +49 (0) 906 - 705 95-55
E-Mail info@bicker.de
**www.bicker.de**