UPSIC-2403

24 VDC / 3 A

- **Regulated voltage at backup**
- **Supercaps for energy storage**
- **Maintenance-free**
- **High cycle stability > 500 000**
- **Charge time <60 sec at maximum charge current**
- **Extended temperature range -20…+70 °C**
- **Compact design**
- **Active reverse polarity protection**
- **Power Fail signal via relay, RS232 connection**
- **Intelligent charge sharing**

Technical data	
Input voltage	24 VDC (22.5…30 VDC)
Input current	3.5 A
Output power	70 W
Output voltage battery mode	24 VDC ±2 % regulated
Output voltage normal mode	Vin–0.2 V at 100 % load
Output current	3 A
Output ripple	≤40 mV
Efficiency	94 % ($V_{Supercap}$ 9.5V, I_{out} 1.25 A)
Charge current	Depending on load up to 6.2 A CC ($V_{Supercap}$)
Charging method	CC / CV
Storage type	Supercaps 4x 100 F
Charging time	<60 sec at maximum charge current @ 4x 100 F
Backup time	See diagram
Protection	Overcurrent protection – Non LATCH Active reverse polarity protection
Temperature	Operating: -20…+70 °C / Storage: -20…+70 °C
Humidity	Operating: 10…85 % RH, non-condensing / Storage: 10…90 % RH, non-condensing
Dimensions (W x D x H)	135 x 79.5 x 26 mm incl. supercaps @ 4x 100 F
Weight (net)	0.17 kg @ 4x 100 F

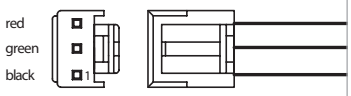
Bicker Elektronik GmbH | 86609 Donauwörth | Germany
Tel. +49 906 70595-0 | info@bicker.de | **www.bicker.de**

Optional Accessories

▷▷▷ *For detailed information please visit our website* ***www.bicker.de*** *and refer to the article number.*

PSZ-1036 | Input cable

3-pole, length 500mm, AWG 18,
ends open

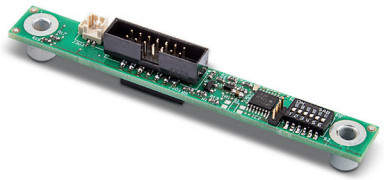


PSZ-1037 | Output cable

2-pole, length 500mm, AWG 18,
ends open

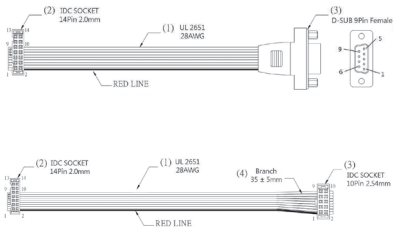
PSZ-1063 | µExtension module

µExtension module for DC2412-UPS(LD) –
UPSIC-2403 – UPSIC-1205



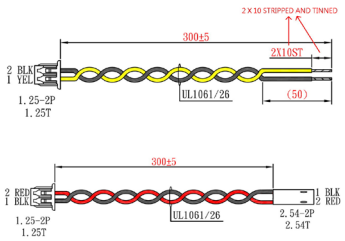
PSZ-1046 / PSZ-1048 | Interface cable

Interface cable for UPSIC and DC2412,
PSZ-1046: IDC 2.0 to SUB-D 9 pin female,
PSZ-1048: IDDC 2.0 to IDC 2.54



PSZ-1043 / PSZ-1044 | Interface cable

For UPSIC and DC2412-UPS (-LD),
PSZ-1043: TP connector wire open end,
PSZ-1044: TP connector wire 2.54 mm

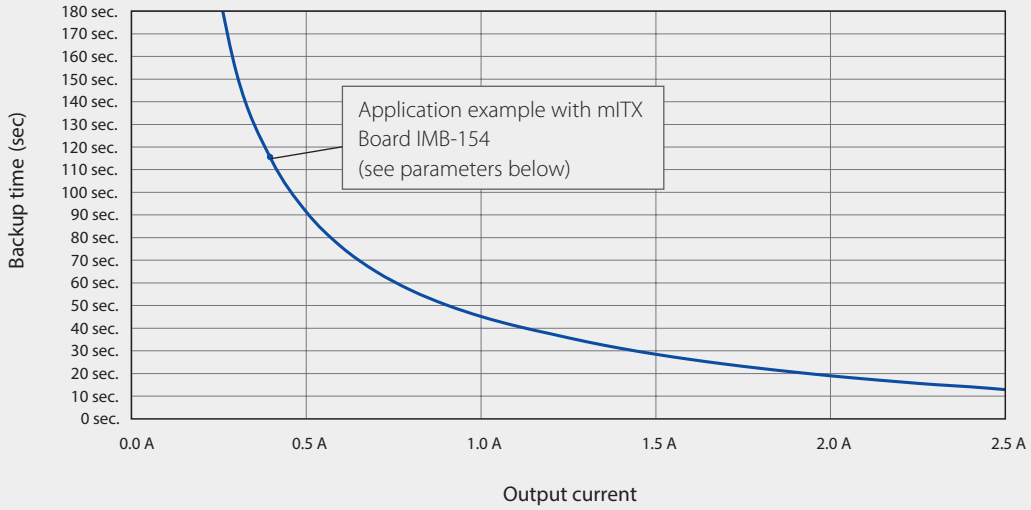


PSZ-1009 | Male adapter

DCplug: 2.5 x 5.5 mm, AWG 26–12

DC UPS

Backup time



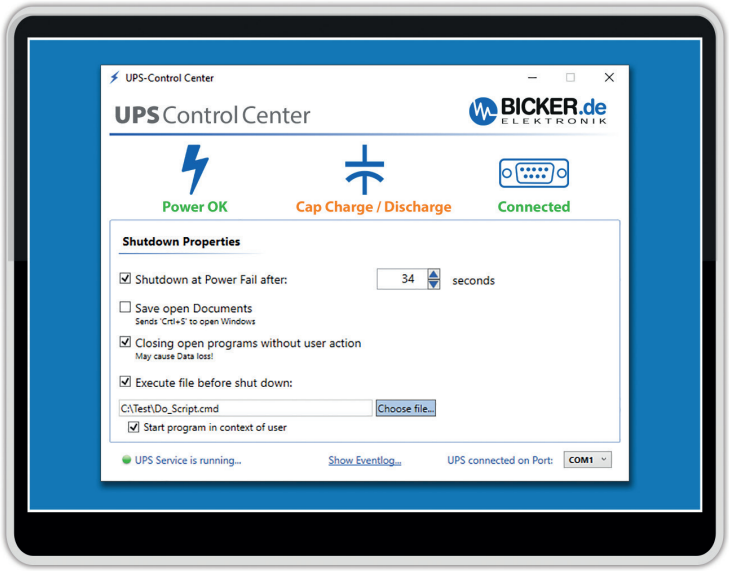
Standby @ No Load >30 min
—— @ nom. Cap. & 25 °C

Parameters of the test system for the backup curve (calculated from test results with 12V type)

Board	IMB-154 L0.36 SN: 59M0X2003883 CPU: Braswell N3150; 4x 1.60 GHz
RAM	2 x 4 GB / DDR3 SO-DIMM 1600 MHz FB Type: CIR-S3SUSKA 1604G SN: CIR 154630106 CIR 154630106
ROM	1x mSATA 32 GB Type: CIE MSM300M JB032GS SN: CIE164905767
OS	Microsoft Windows 10 Enterprise Evaluation Version 1511 Build 10586.589 (2016/09/16)
Test Software	BurnInTest V7.1 Pro

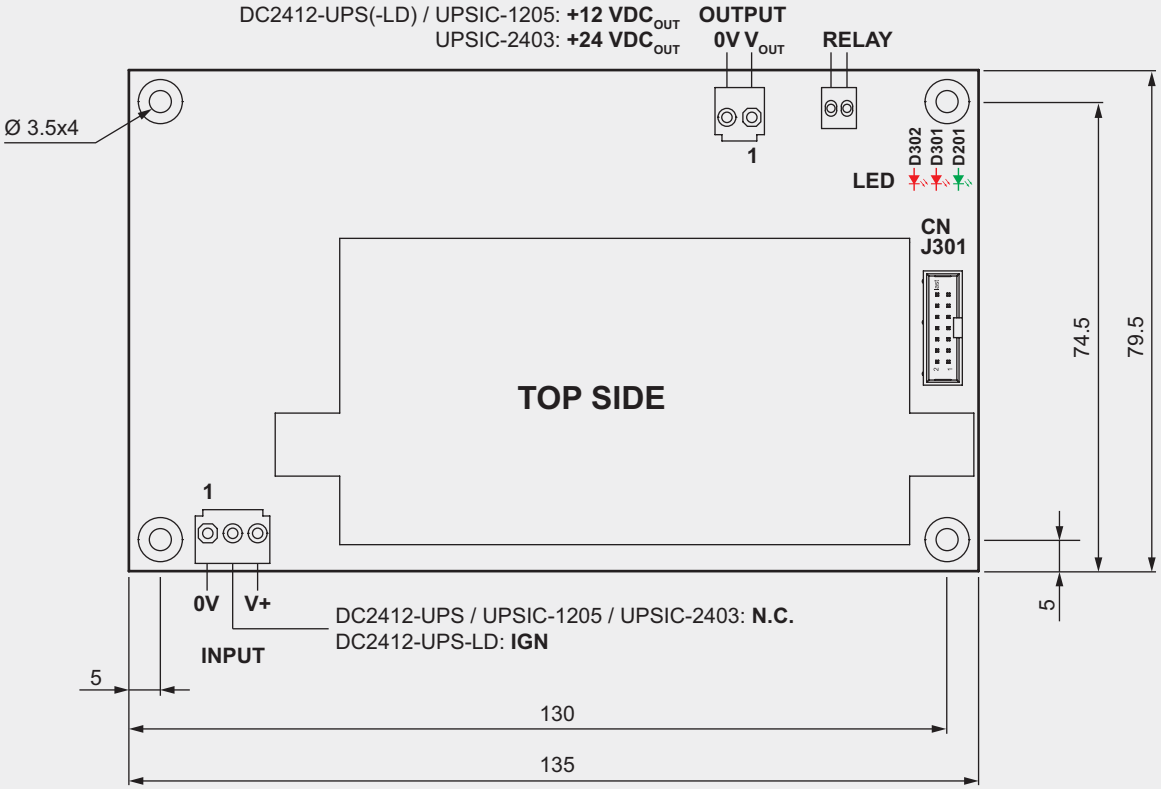
Software UPS Control Center

UPS Control Center
The UPS software is available for free download directly on the product page at **www.bicker.de**.



Drawing UPSIC-2403

Relay contact for Power Fail
Power Fail ≙ 0 Ω
0.5 A @ 125 VAC
1 A @ 24 VDC



CN J301 – Pin assignment

RS232

01	DCD
02	DSR signal (Low = Cap >90 %; High = Cap <90 %)
03	NC
04	RTS signal (Supply voltage, max. 12 V)
05	NC
06	CTS signal (Low = Power Fail; High = Power OK)
07	NC
08	OD (Output Disable)
09	GND

I²C

10	SMB alert
11	GND
12	XSDA I²C
13	V_{Out}
14	XSCL I²C

Connectors

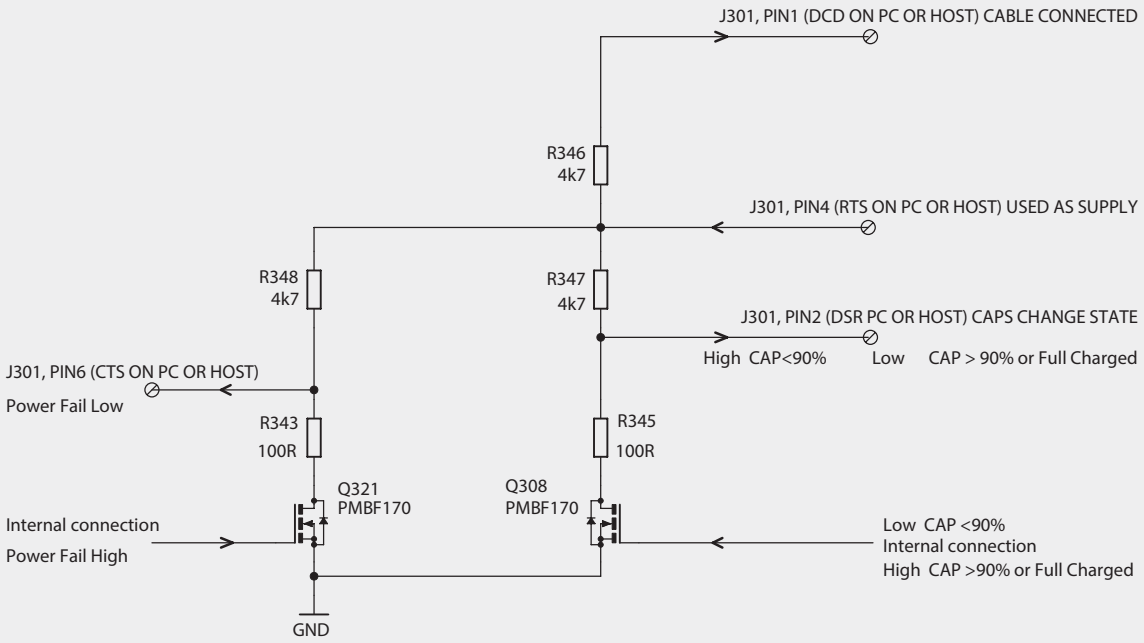
INPUT	VHR-3N (1: 0V, 2: n.c., 3: V+)
OUTPUT	VHR-2N (1: V+, 2: 0V)
CN J301	WR-BHD62501021621 (pitch 2.0 mm)
RELAY	WR-691210910002

LED

D302	RED	Caps charging state < 90%
D301	RED	Power fail, backup mode
D201	GREEN	Normal mode

Tolerance ±0.5 mm

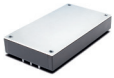
Interface schematic J301



Recommended power supplies from Bicker Elektronik ▷▷▷ *Additional recommendations on www.bicker.de*

BET-0924-T	BET-1024M	BED-12024	BEN-10024
90 Watt	100 Watt	120 Watt	100 Watt



Bicker Elektronik GmbH | 86609 Donauwörth | Germany
Tel. +49 906 70595-0 | info@bicker.de | **www.bicker.de**