

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



Including
UPSCoM Management
Software

Technical data	
Input voltage	24 VDC (22.5...30 VDC)
Input current	3.5 A
Output power	72 W
Output voltage battery mode	24 VDC $\pm 2\%$ regulated
Output voltage normal mode	$V_{in} - 0.2\text{ V}$ at 100% load
Output current	3 A
Output ripple	$\leq 40\text{ mV}$
Efficiency	94% ($V_{\text{Supercap}} = 9.5\text{V}$, $I_{\text{out}} = 1.25\text{ A}$)
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
Power Fail Relay	DC fail: contact closed (see page 4)
Temperature	Operating: -20...+70 °C / Storage: -20...+70 °C
Humidity	Operating: 10...85 % RH, non-condensing / Storage: 10...90 % RH, non-condensing
Dimensions (WxDxH)	135 x 79.5 x 28.5 mm incl. supercaps @ 4x 100 F
Weight (net)	0.17 kg @ 4x 100 F

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



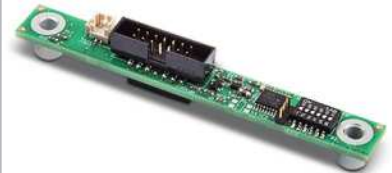
PSZ-1037 | Output cable

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



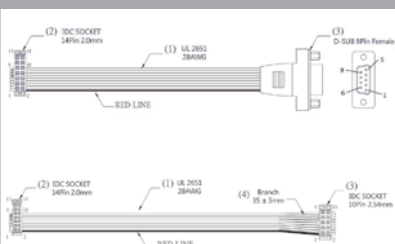
PSZ-1063 | µExtension module

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



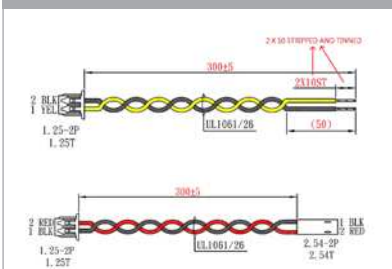
PSZ-1046 / PSZ-1048 | Interface cable

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

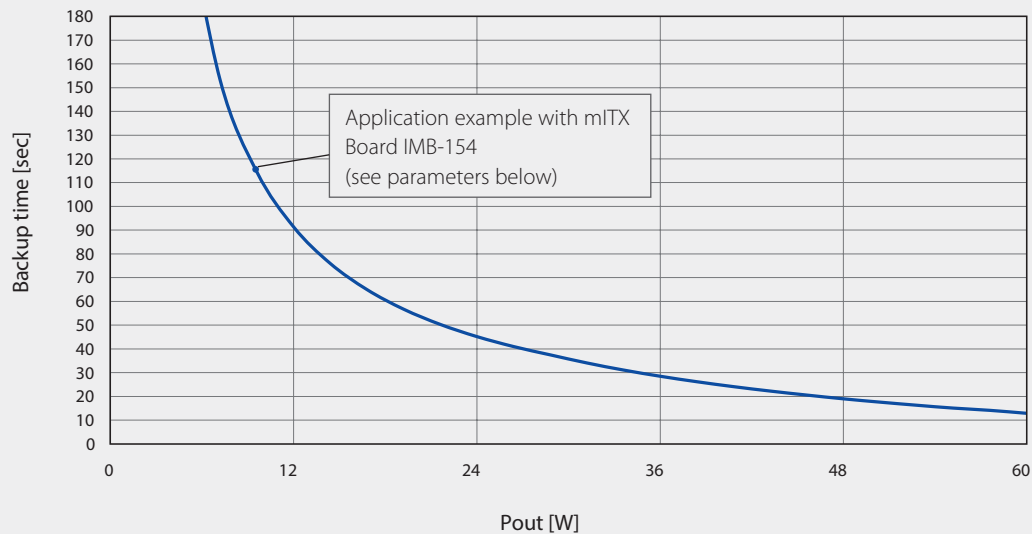


PSZ-1009 | Male adapter

DCplug: 2.5 x 5.5 mm, AWG 26–12



Backup time



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

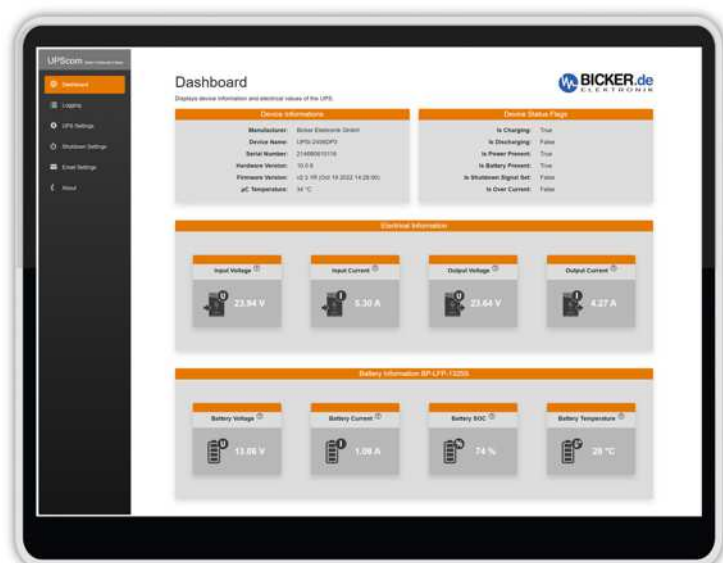
Parameters of the test system for the backup curve (calculated from test results with 12V type)

Board	IMB-154 L0.36 SN: 59MOX2003883 CPU: Braswell N3150; 4x 1.60GHz	ROM	1x mSATA 32GB Type: CIE MSM300M JB032GS SN: CIE164905767
RAM	2 x 4GB / DDR3 SO-DIMM 1600MHz FB Type: CIR-S3SUSKA 1604G SN: CIR 154630106 CIR 154630106	OS	Microsoft Windows 10 Enterprise Evaluation Version 1511 Build 10586.589 (2016/09/16)
		Test Software	BurnInTest V7.1 Pro

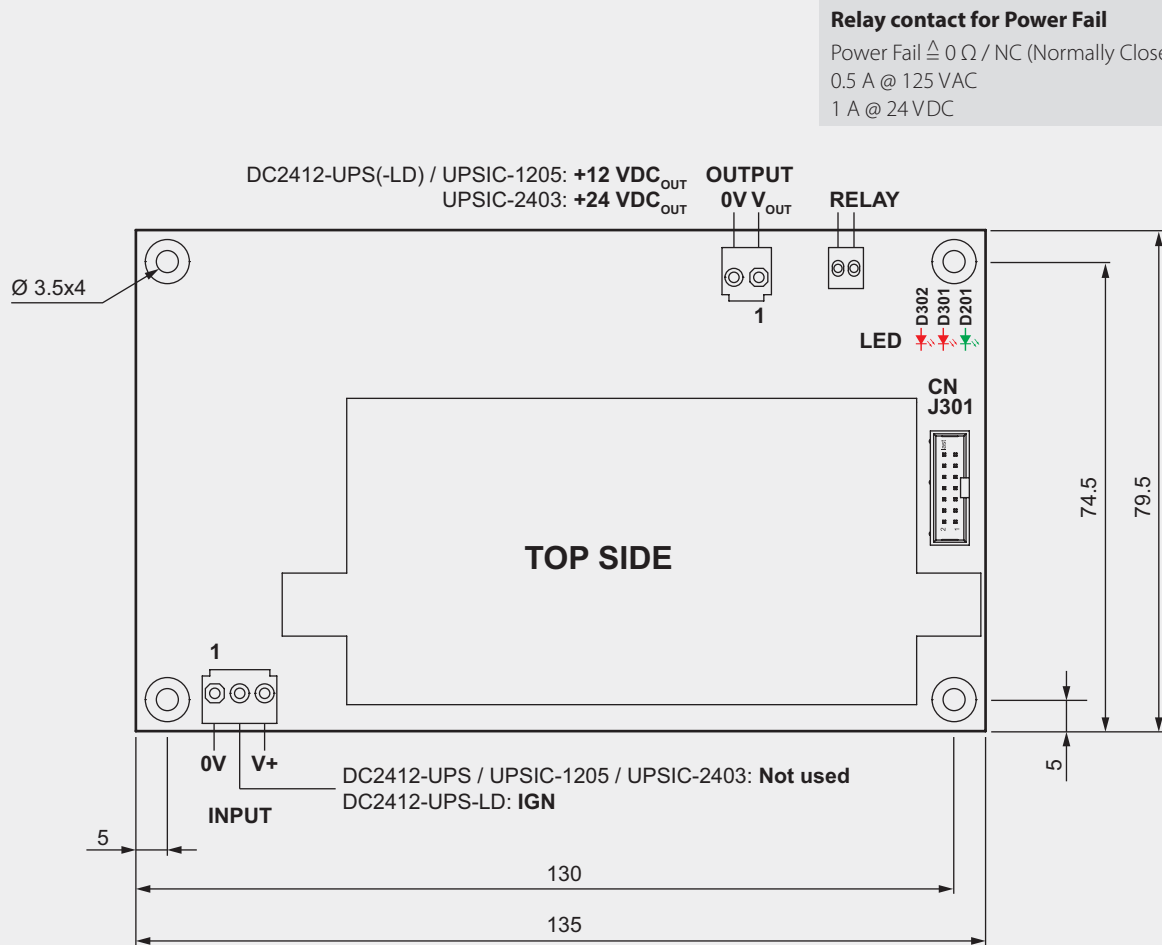
UPSCOM Management Software in combination with PSZ-1063

UPS management software 'UPSCOM' with intuitive user interface

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



Drawing UPSIC-2403



CN J301 – Pin assignment

RS232

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

I²C

10	SMB alert
11	GND
12	XSDA I ² C
13	V _{Out}
14	XSCL I ² C

Connectors

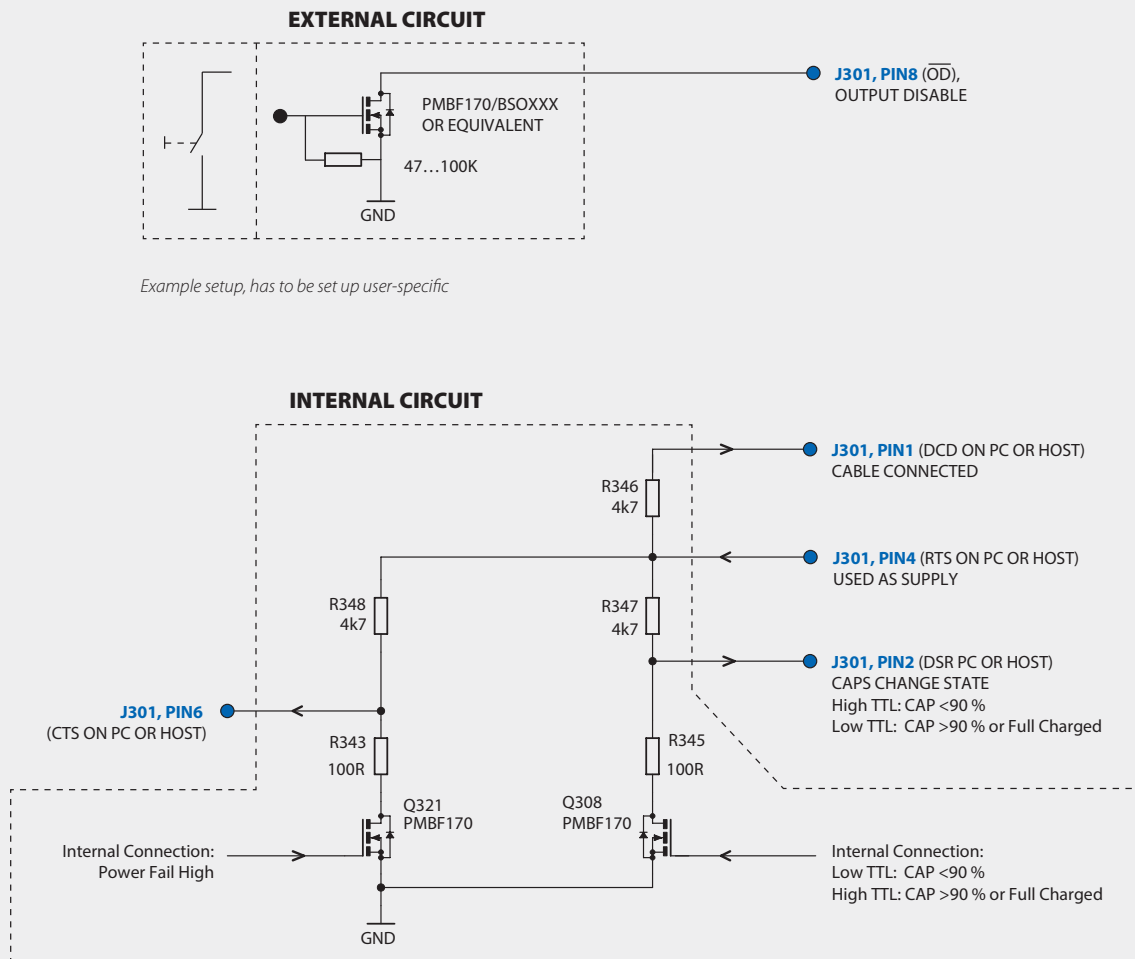
INPUT	VHR-3N (1: 0V, 2: n.c., 3: V+)
OUTPUT	VHR-2N (1: V+, 2: 0V)
CN J301	WR-BHD62501021621 (pitch 2.0 mm)
RELAY	WR-691210910002

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

