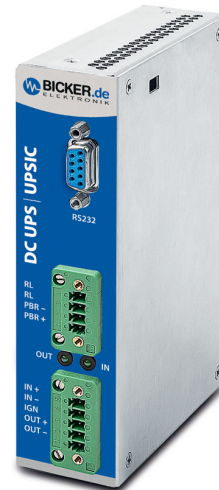


UPSIC-1205D

12 VDC / 5 A

- ✓ Regulated voltage at backup
- ✓ Maintenance-free supercaps for energy storage
- ✓ High cycle stability > 500 000
- ✓ Charge time < 60 sec at maximum charge current
- ✓ Extended temperature range -20...+70 °C
- ✓ Compact DIN rail chassis
- ✓ Active reverse polarity protection
- ✓ Power Fail signal via relay, RS232 connection
- ✓ Intelligent charge sharing
- ✓ Reboot Function
- ✓ Operation of UPS at host without software possible
- ✓ Output release from 90 % supercap capacity

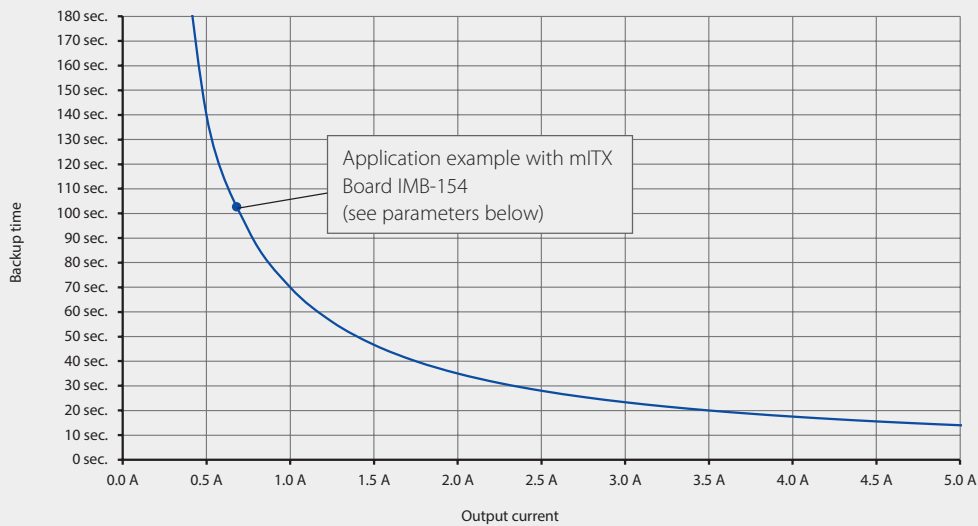
**NEW**

**Including
Software**
UPS Control Center

Technical data	
Input voltage	12 VDC (11.6...16 VDC)
Input current	5.8 A nom.
Output power	60 W
Output voltage battery mode	12 VDC ± 2 % regulated
Output voltage normal mode	$V_{in} - 0.3$ V at 100 % load
Output current	5 A
Output ripple	≤ 30 mV
Backup efficiency	97 % ($V_{Supercaps} 9.5$ V, $I_{out} 2.5$ 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 (WxDxH)	36 x 103 x 147 mm
Weight (net)	0.367 kg

DC UPS

Backup time



Type 4x 100F:
Standby@No Load >30 min
— @ nom. Cap. & 25 °C

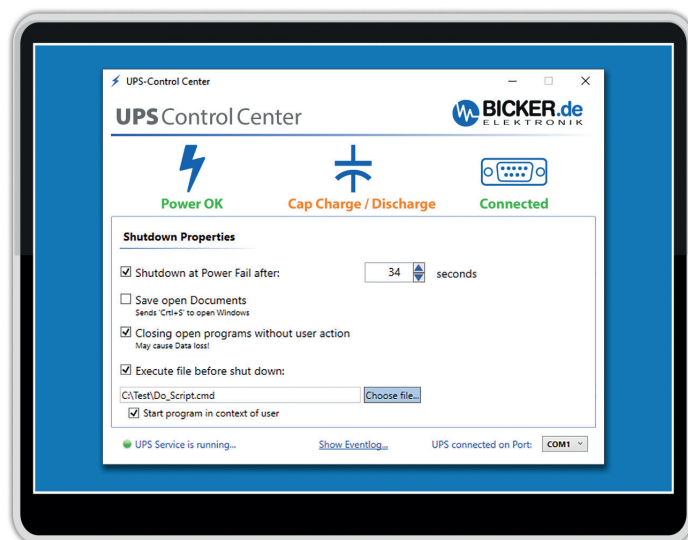
Parameters of the test system for the backup curve

Board	IMB-154 L0.36 SN: 59M0X2003883 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
		Test results	100% load: 1 min. 43 sec. = 103 sec

Software UPS Control Center

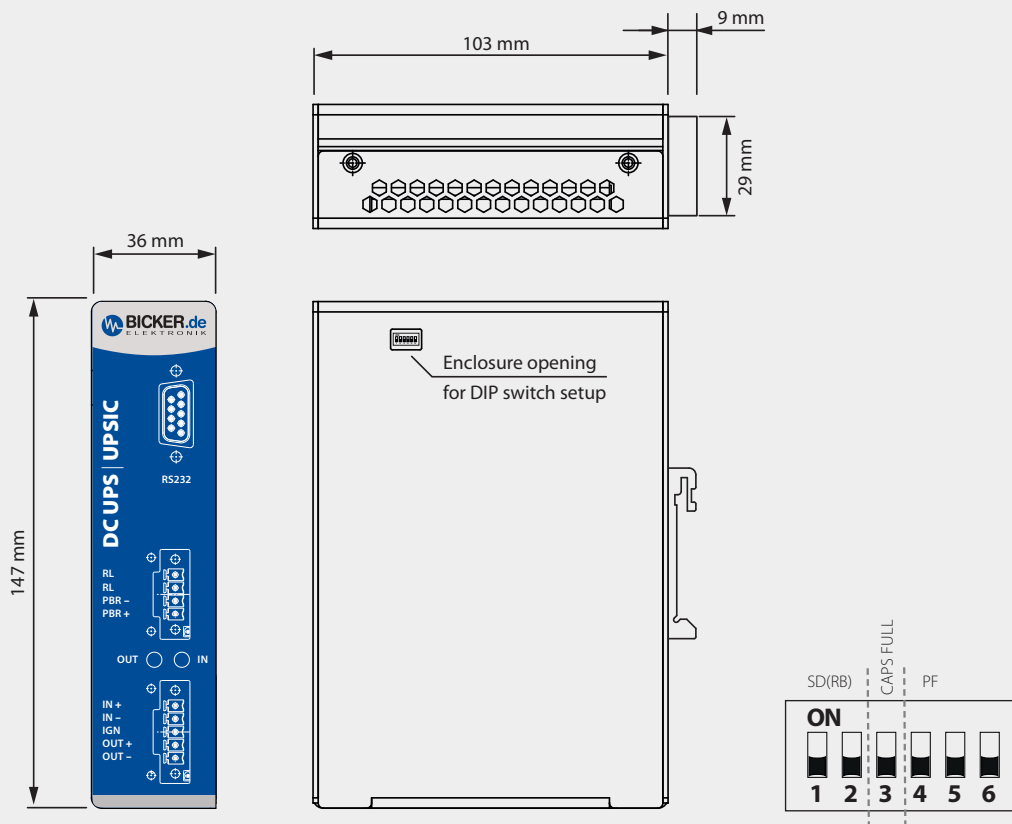
UPS Control Center

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



DC UPS

Drawing UPSIC-1205D



Connectors

RS232

01	DCD at PC – Detection cable connected
02	TXD (is connected to RXT at PC)
03	RXD (is connected to TXD at PC)
04	Shutdown signal detection
05	GND
06	DSR at PC – Detection caps loading status
07	RTS at PC – Supply voltage
08	CTS at PC – Power Fail detection
09	N/A

RL / PBR

04 / RL	Relay connection
03 / RL	Relay connection
02 / PBR –	(V–) Power button mainboard
01 / PBR +	(V+) Power button mainboard

IN / IGN / OUT

05 / IN +	V+ Input
04 / IN –	V– Input
03 / IGN	Ignition signal
02 / OUT +	V+ Output
01 / OUT –	V– Output

DIP switch setup

Shutdown Timer

PIN	1	2
No Reboot	ON	ON
Reboot after 10s	ON	OFF
Reboot after 30s	OFF	ON
Reboot after 60s	OFF	OFF

PIN 3

ON Output released when V_{CAP} over 90%

Power Fail (PF) - Timer

4	5	6	PIN
ON	ON	ON	Software
ON	ON	OFF	3s
ON	OFF	ON	8s
ON	OFF	OFF	20s
OFF	ON	ON	40s
OFF	ON	OFF	60s
OFF	OFF	ON	100s
OFF	OFF	OFF	150s

Power Fail: relay contact 3+4=0 Ω
0.5 A @ 125VAC / 1 A @ 24VDC

Tolerance ± 0.5 mm

DC UPS