

BP-SUC

Supercap packs

- ✓ Long-life storage medium for UPS systems
- ✓ High reliability
- ✓ Maintenance-free supercap technology
- ✓ High cycle stability > 500 000
- ✓ Extended temperature range
- ✓ High power density
- ✓ Integrated control circuitry
- ✓ Over current protection
- ✓ Over voltage protection (up to 30V)
- ✓ Connect / disconnect power function
- ✓ Compact open frame PCB version



NEW



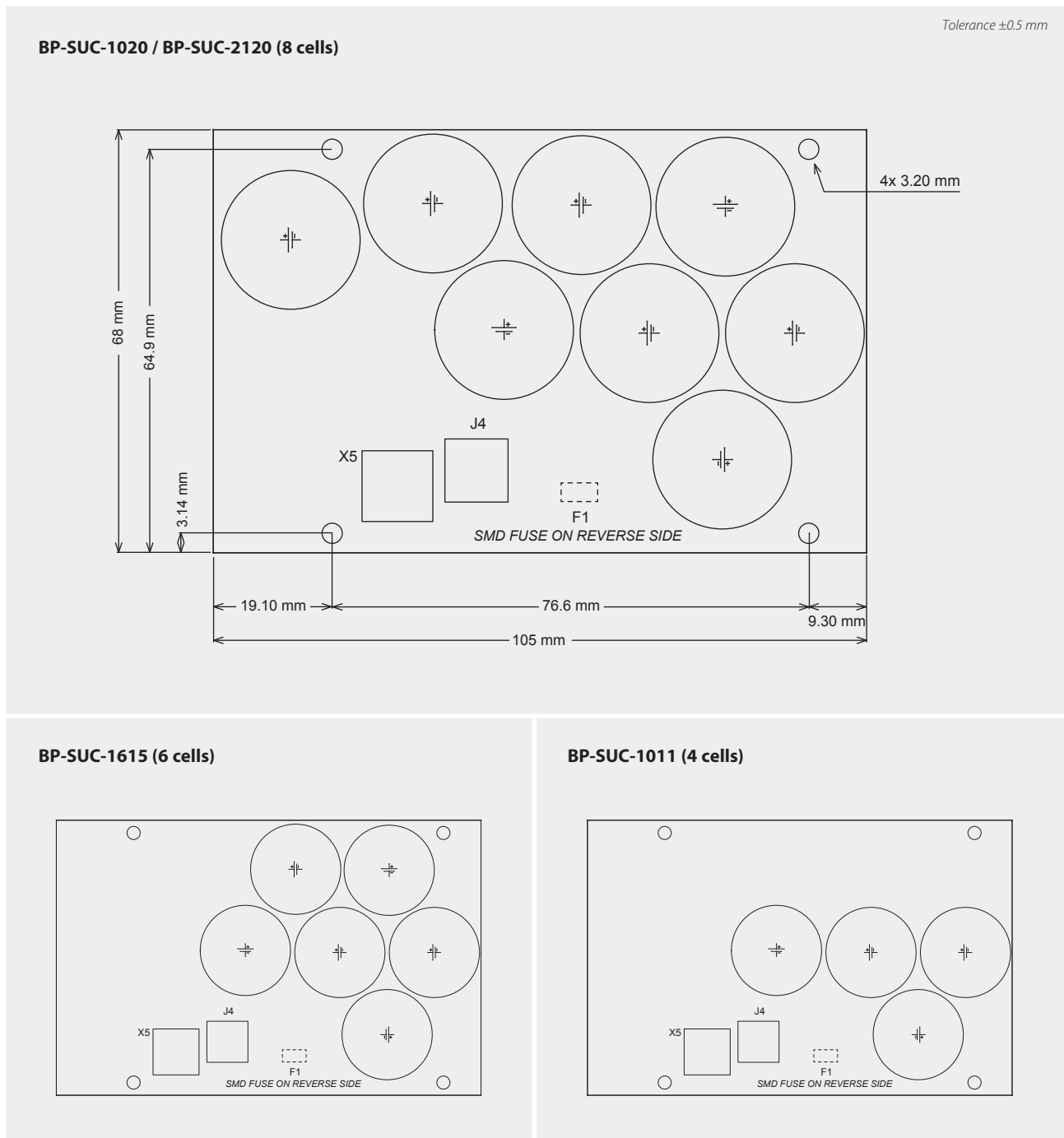
Technical data	
Technology	EDLC (Electric double-layer capacitors) – Supercaps
Life cycles	>500.000
Temperature	Operating: -20...+70 °C / Storage: -20...+70 °C
Max. operation altitude	5000 m
Communication	SMB

Product specific data				
P/N	BP-SUC-1011	BP-SUC-1020	BP-SUC-1615	BP-SUC-2120
UPS version	UPSI-1208	UPSI-1208	UPSI-2406	UPSI-2406
Nominal voltage	10.4 VDC	10.4 VDC	15.6 VDC	20.8 VDC
Number of used cells	4 cells à 2.6V (serial)	8 cells à 2.6V (serial and parallel)	6 cells à 2.6V (serial)	8 cells à 2.6V (serial)
Energy	1.8 kJ (useful 1.1 kJ)	3.6 kJ (useful 2 kJ)	2.7 kJ (useful 1.5 kJ)	3.6 kJ (useful 2 kJ)
ESR	10 mΩ	10 mΩ	10 mΩ	10 mΩ
Charge voltage	10.4 VDC	10.4 VDC	15.6 VDC	20.8 VDC
Charge current	4 A max.	4 A max.	3 A max.	3 A max.
Discharge current	17 A max.	17 A max.	18 A max.	18 A max.
Fuse (SMD)	20A/32V	20A/32V	20A/32V	20A/32V
Dimensions (WxDxH)	105x69x53 mm ±0.5 mm	105x69x53 mm ±0.5 mm	105x69x53 mm ±0.5 mm	105x69x53 mm ±0.5 mm
Weight (net)	110 g	200 g	150 g	200 g

Nominal backup time, measured at +21 °C			
	50 W	100 W	140 W
BP-SUC-1011	~ 20 sec	~ 8 sec	–
BP-SUC-1020	~ 40 sec	~ 16 sec	–
BP-SUC-1615	~ 29 sec	~ 14 sec	~ 10 sec
BP-SUC-2120	~ 39 sec	~ 19 sec	~ 14 sec

Back up time depends on battery capacitance, load and temperature.

Drawing

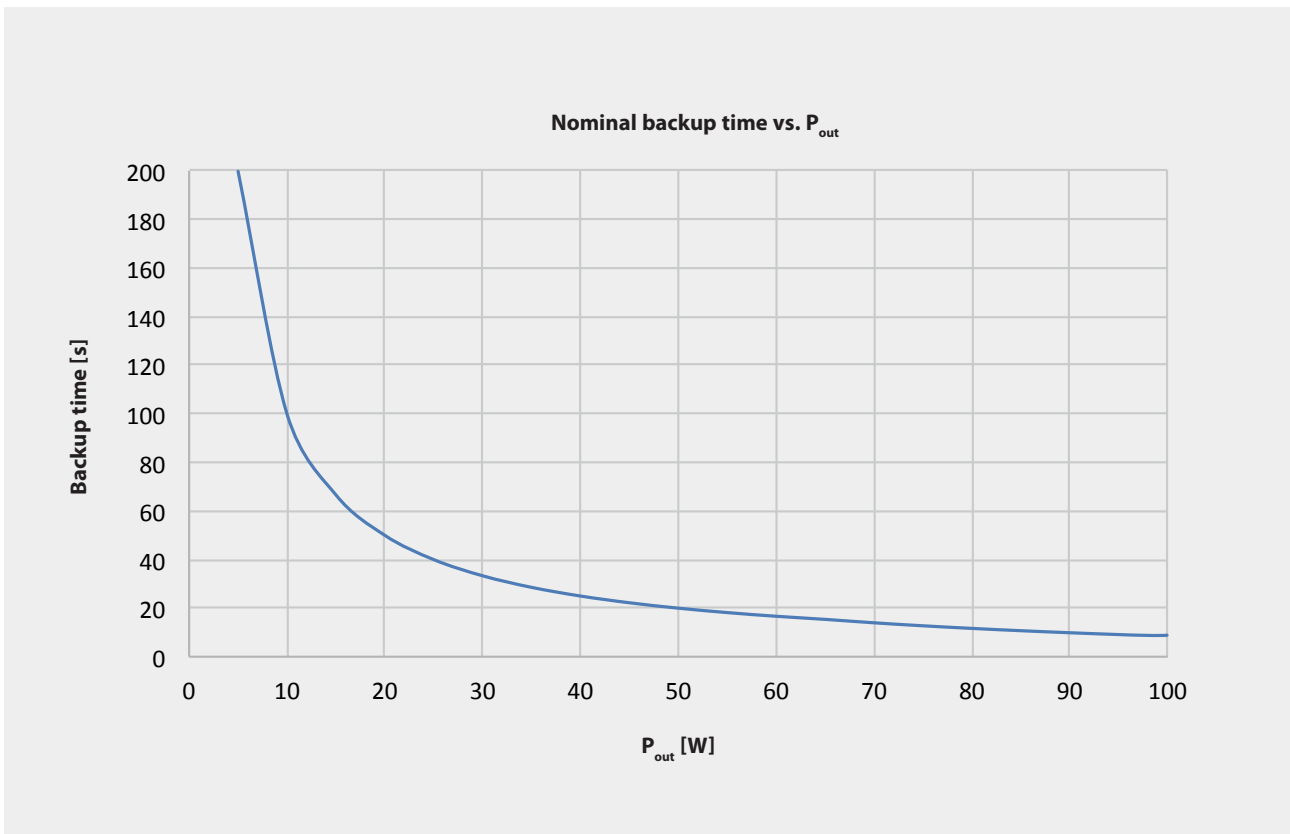


Safety information

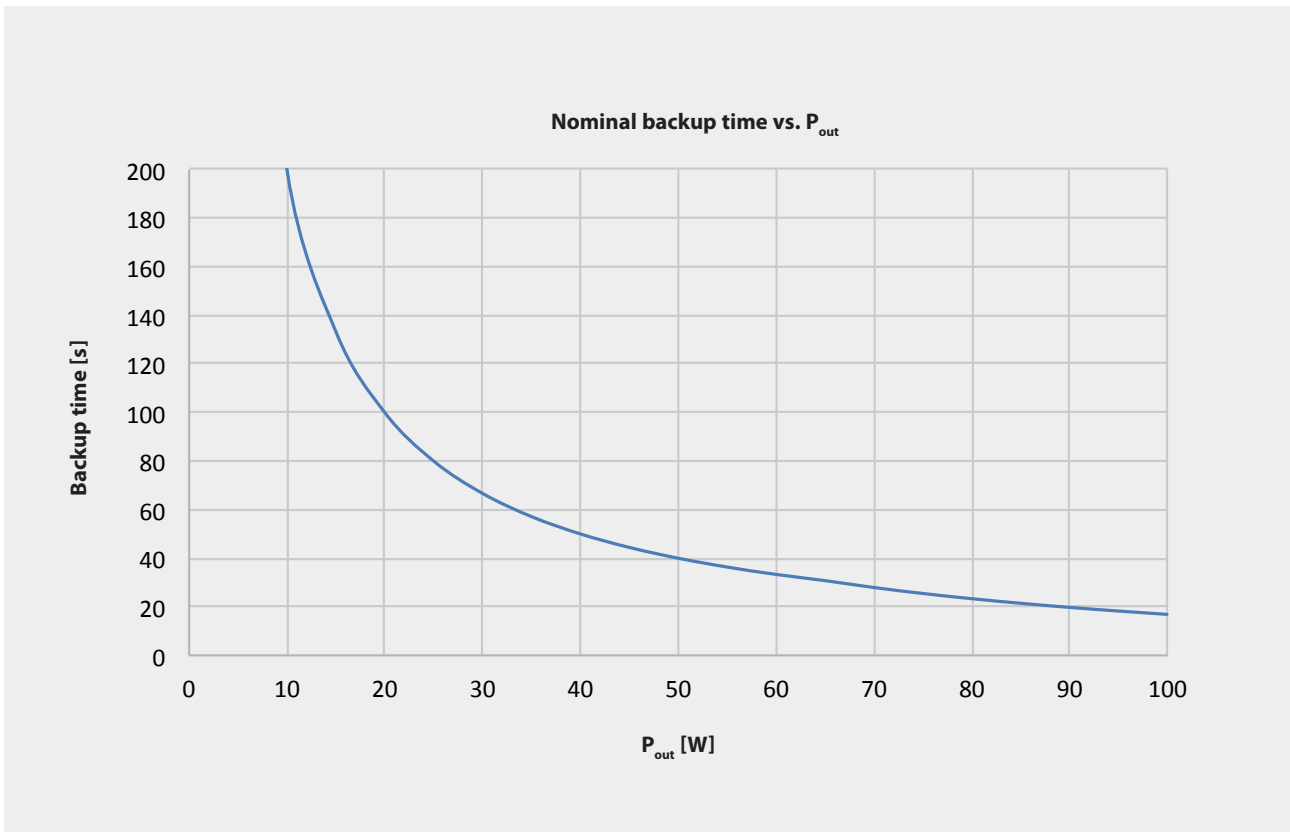


The correct and proper operation of the battery pack is only constituted by using a BICKER UPSI-1208 (D) or UPSI-2406 (D). The correct activation process of the battery pack (via firmware) is only ensured with these devices! If the packs are connected to a pure current / voltage source, they will be damaged! The correct connecting order (see user manual page 48/49) must be strictly followed. When changing the battery packs while the system is running (hot swapping), a period of at least 6 seconds must elapse between disconnecting and re-connecting a battery pack. Please consider to each country's own regulation about recycling and disposal of used batteries etc. in hazardous waste or resending to any recycling organization. The battery pack should not be exposed to fire, immersed under water, soldered, opened, short-circuited, reversed or overheated. During storage the battery pack should not be exposed to temperatures outside the specification and should not be pushed too heavy and not exposed to high pressure. Do not swallow any parts of the battery pack.

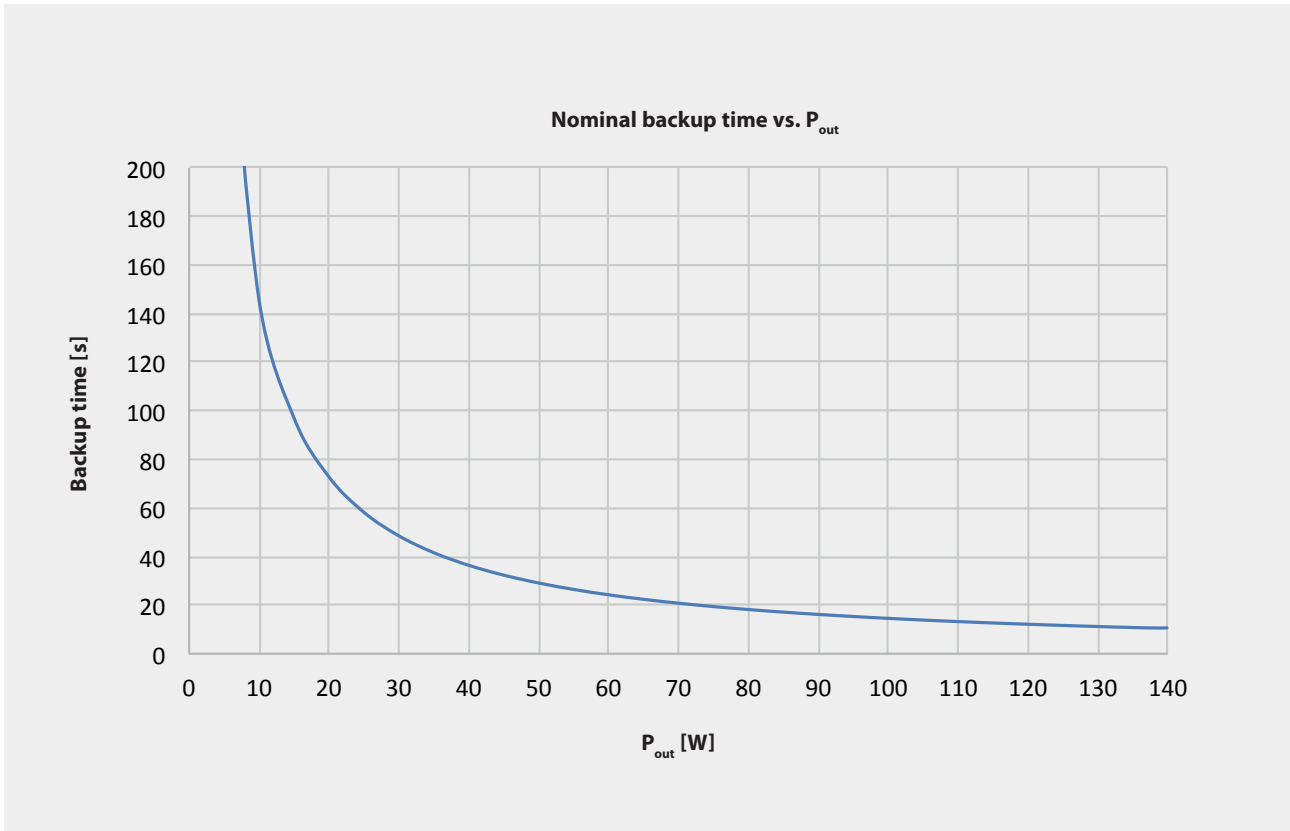
Backup time BP-SUC-1011



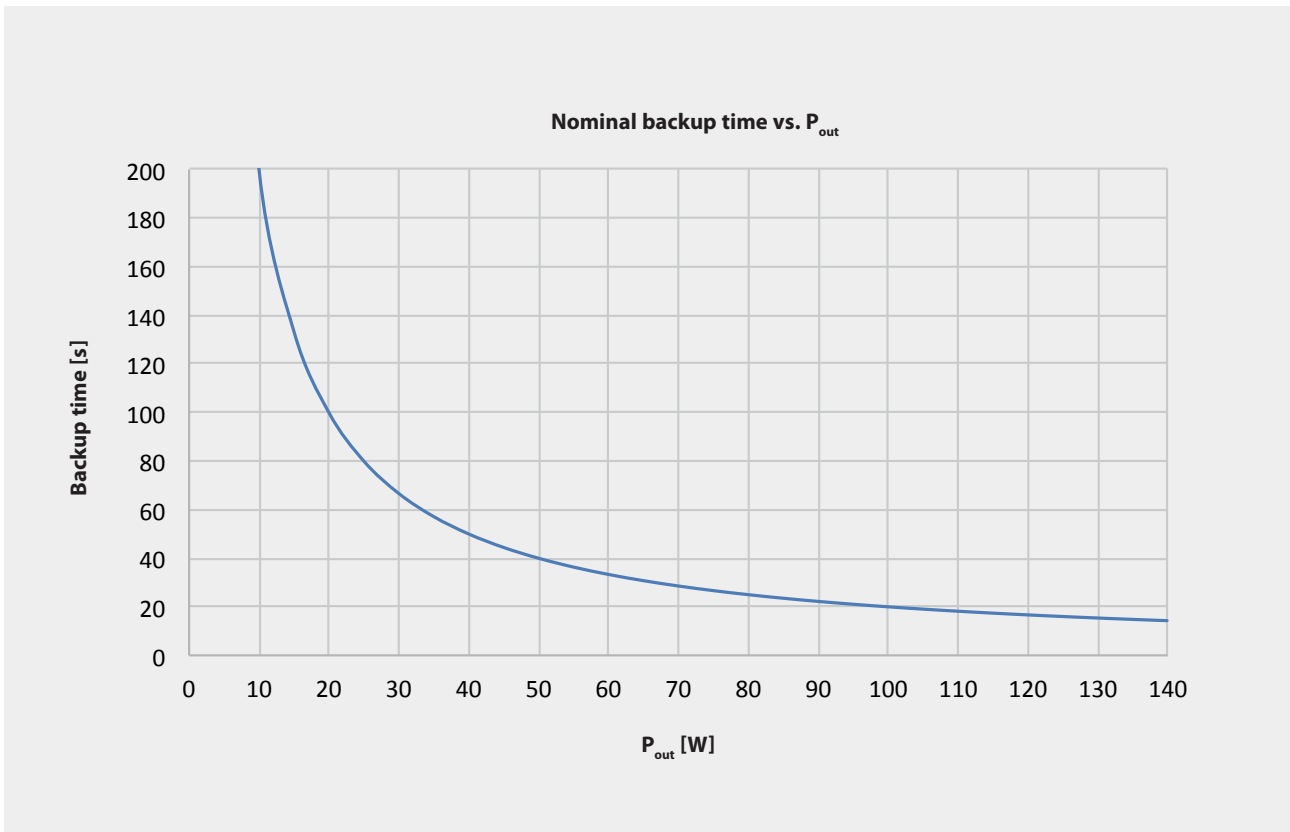
Backup time BP-SUC-1020



Backup time BP-SUC-1615



Backup time BP-SUC-2120



Specification is subject to change without notice. Errors excepted. Status as at: 23.08.2018