

# BP-SUC-LD

## 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
- ✓ Cell Balancing
- ✓ Over current protection
- ✓ Over voltage protection
- ✓ Fuse at output
- ✓ Ruggedly constructed DIN rail 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-1033D	BP-SUC-1645D	BP-SUC-16090D	BP-SUC-10066D
UPS version	UPSI-1208D	UPSI-2406D	UPSI-2406D	UPSI-1208D
Number of used caps	4 caps à 2.6V (serial)	6 caps à 2.5V (serial)	12 caps à 2.5V (serial and parallel)	8 caps à 2.6V (serial and parallel)
Energy	4.9 kJ (useful 3.3 kJ)	6.8 kJ (useful 4.5 kJ)	13.5 kJ (useful 9.0 kJ)	9.8 kJ (useful 6.6 kJ)
Charge voltage (max.)	10.4 VDC	15.2 VDC	15.2 VDC	10.4 VDC
Charge current (max.)	6 A max.	6 A max.	6 A max.	6 A max.
Discharge current (cont.)	15 A	15 A	15 A	15 A
Discharge current (max.)	17 A (<2s)	17 A (<2s)	17 A (<2s)	17 A (<2s)
Fuse (SMD)	20A/65V	20A/65V	20A/65V	20A/65V
Dimensions (WxDxH)	see drawing	see drawing	see drawing	see drawing
Weight (net)	560 g	720 g	1280 g	1040 g

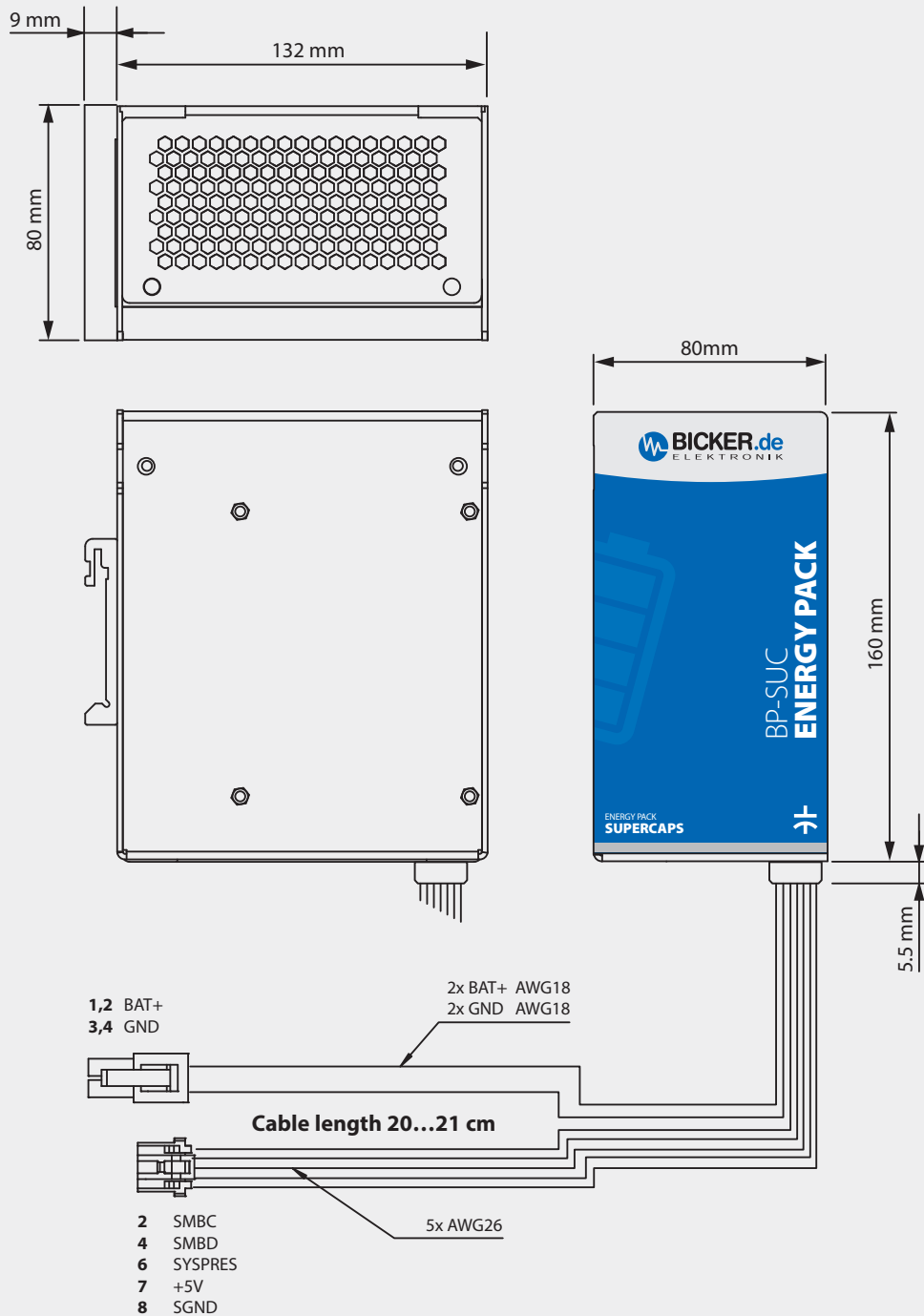
Nominal backup time, measured at +25 °C with UPSI DC UPS			
	50 W	100 W	140 W
BP-SUC-1033D	~ 65 sec	~ 30 sec	–
BP-SUC-1645D	~ 95 sec	~ 45 sec	~ 30 sec
BP-SUC-16090D	~ 190 sec	~ 90 sec	~ 60 sec
BP-SUC-10066D	~ 125 sec	~ 60 sec	–

Back up time depends on Supercap capacitance, load and temperature. At very high or low temperatures a reduction of backup time occurs.

DC UPS

Drawing BP-SUC-16090D and BP-SUC-10066D

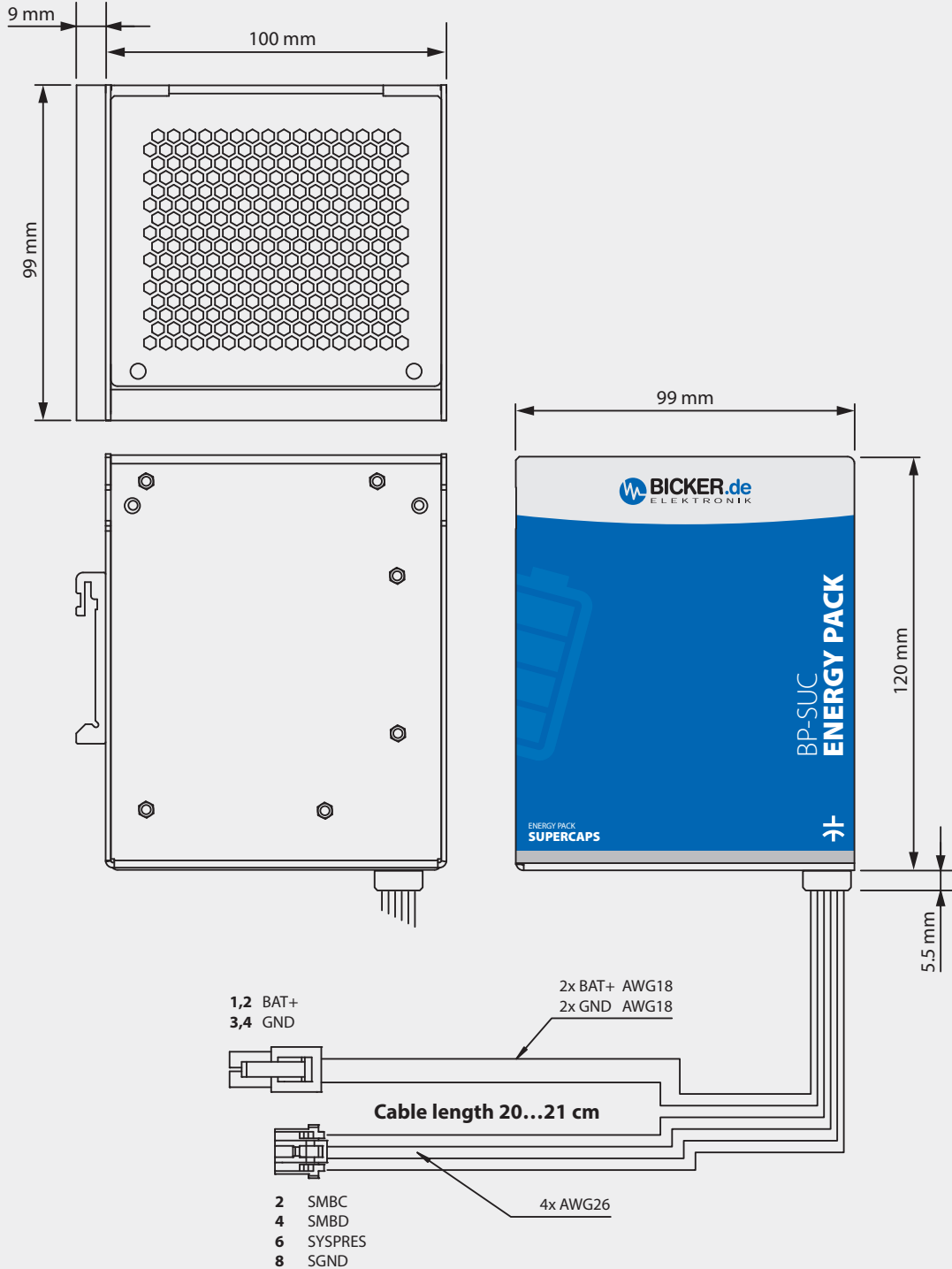
Tolerance  $\pm 0.5$  mm



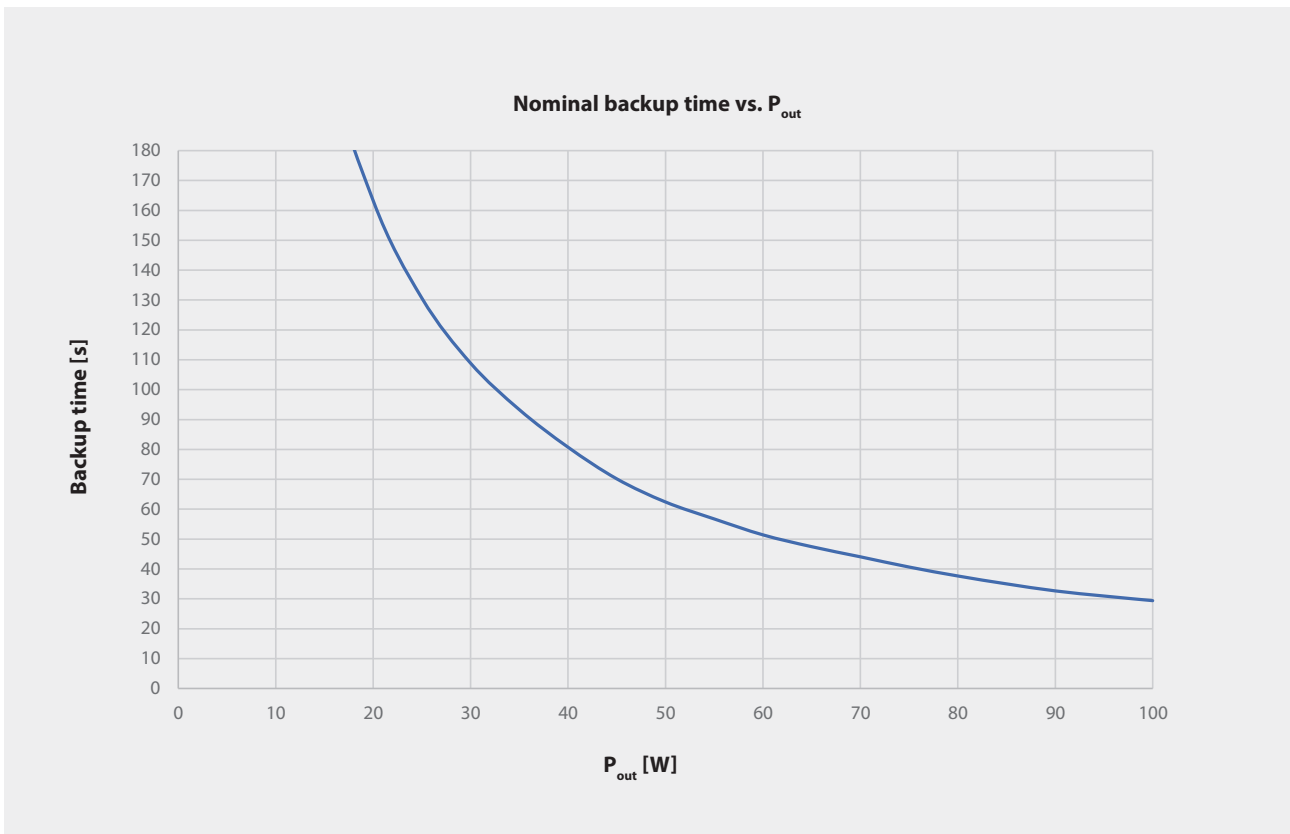
DC UPS

Drawing BP-SUC-1033D and BP-SUC-1645D

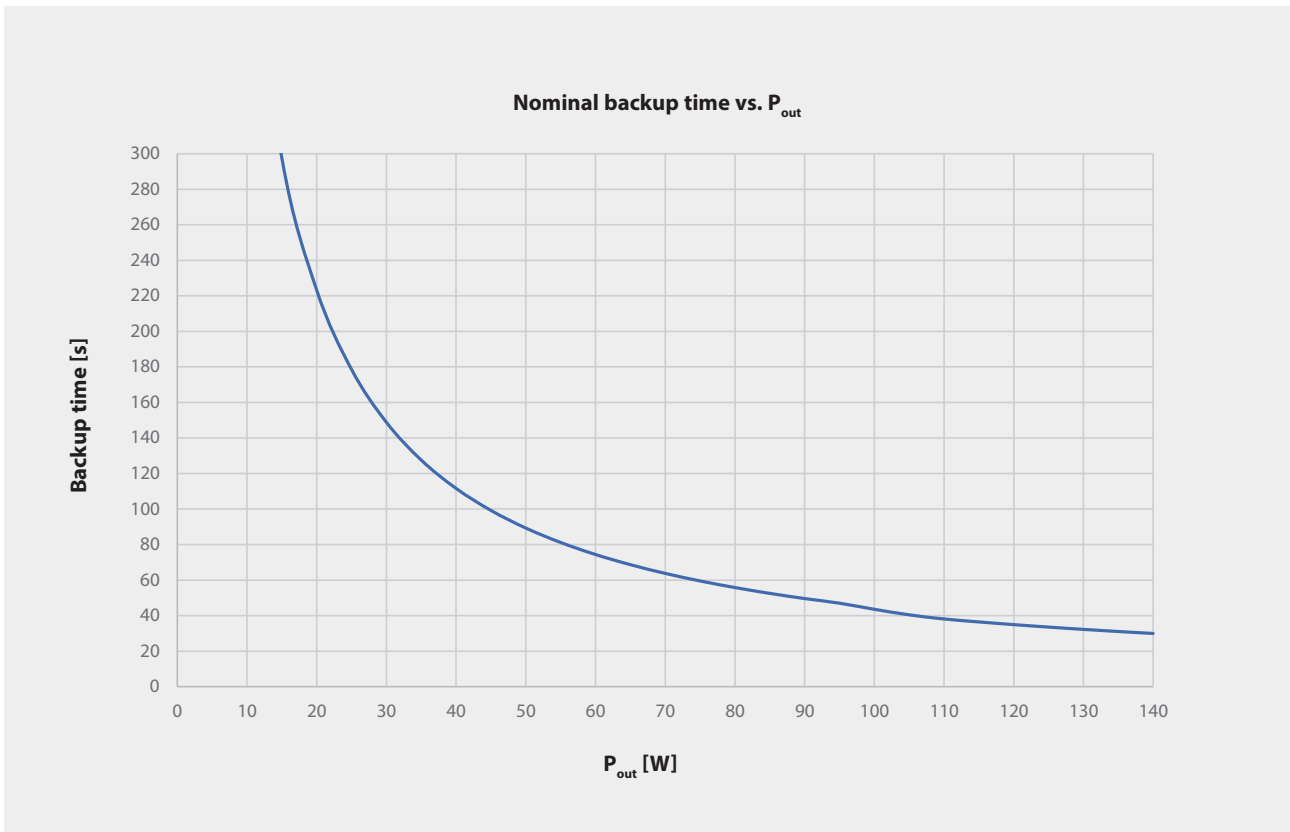
Tolerance  $\pm 0.5$  mm



Backup time BP-SUC-1033D (measured with UPSI DC UPS)

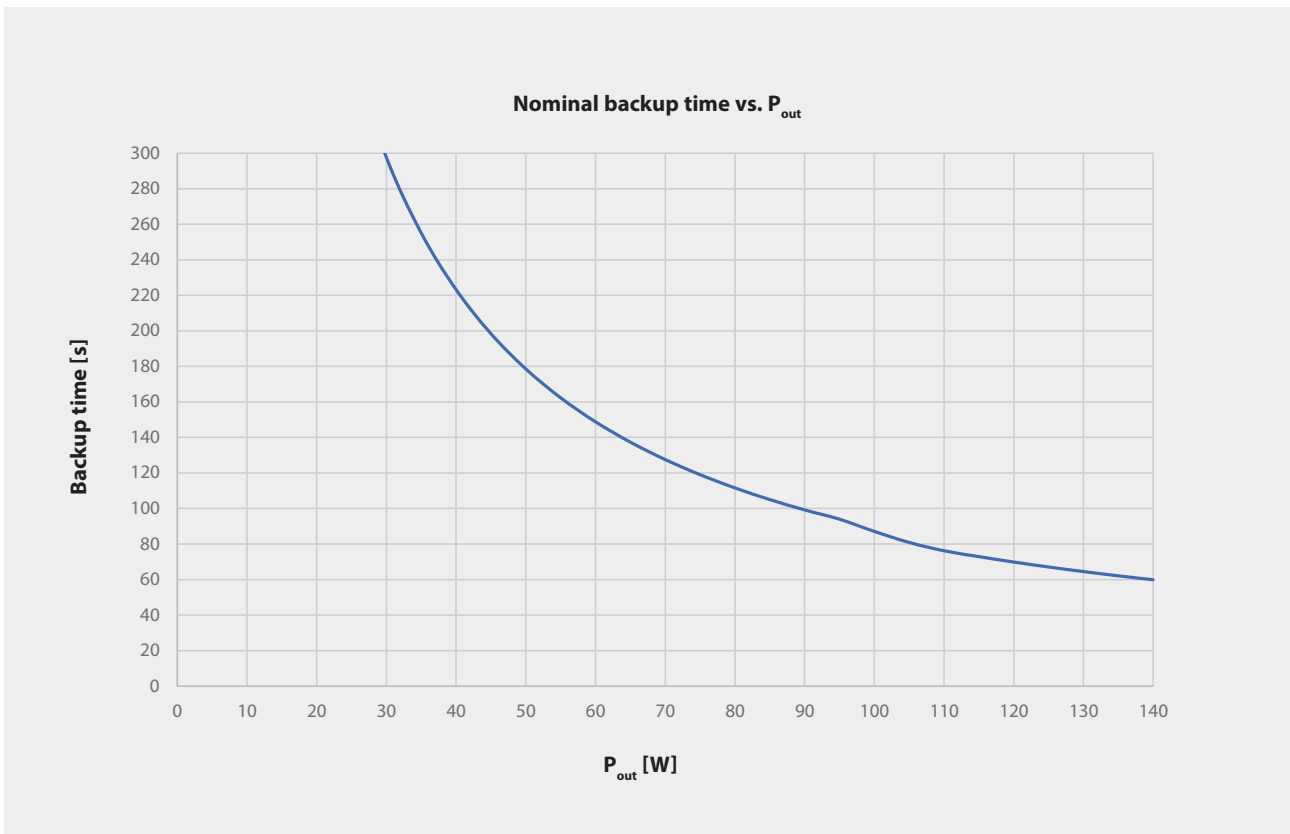


Backup time BP-SUC-1645D (measured with UPSI DC UPS)

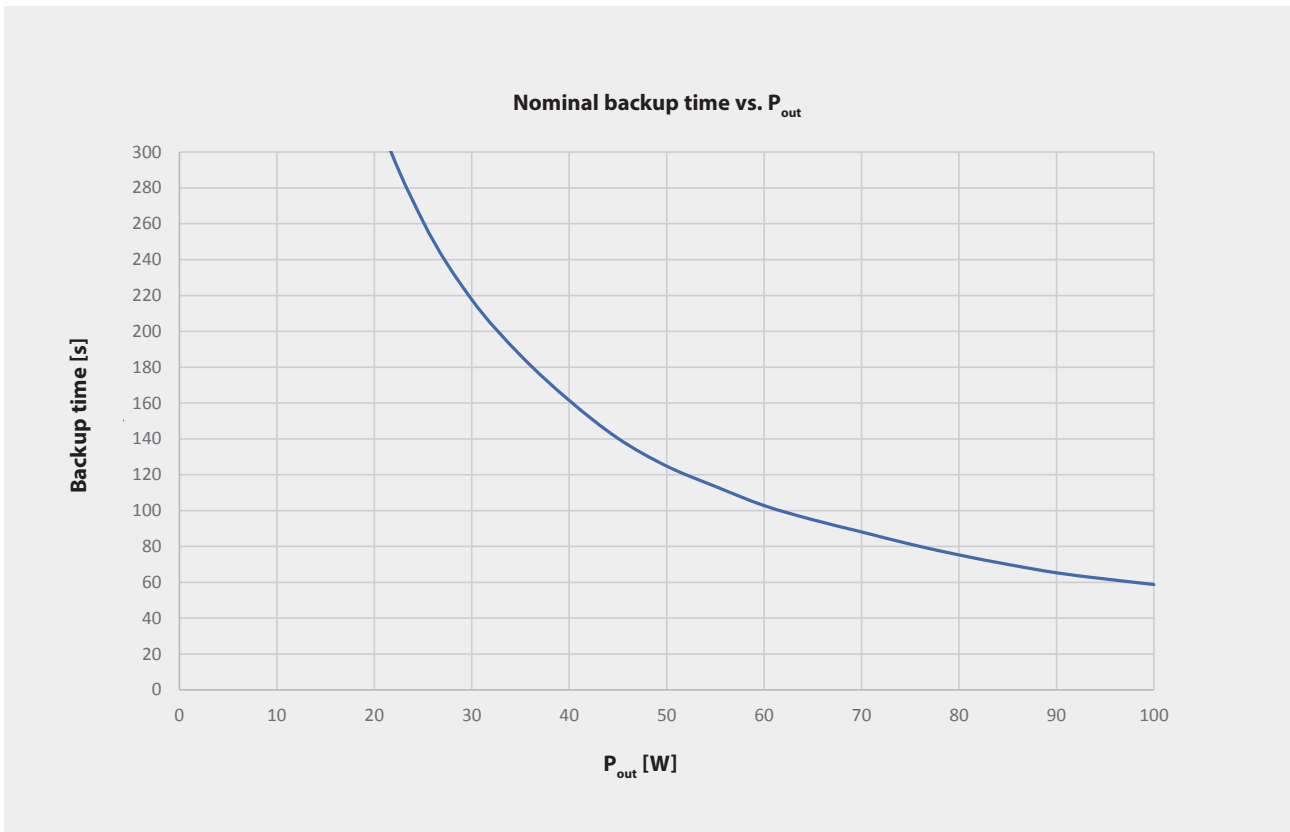


DC UPS

Backup time BP-SUC-16090D (measured with UPSI DC UPS)



Backup time BP-SUC-10066D (measured with UPSI DC UPS)



DC UPS

## Safety information



**Caution:** Parts of the energy storage device are under voltage even when it is disconnected from the UPS system. When handling the device, make sure not to wear any conductive parts, e.g. rings, watches, jewellery. In case of integration into a housing or device, a minimum distance of 3 mm must be maintained between supercap top and housing. When changing the energy packs while the system is running (hot swapping), a period of at least 6 seconds must elapse between disconnecting and re-connecting a energy pack. Please consider to each country's own regulation about recycling and disposal of used caps etc. in hazardous waste or resending to any recycling organization. The energy pack should not be exposed to fire, immersed under water, soldered, opened, short-circuited, reversed or overheated. During storage the energy 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 energy pack.

## Scope of delivery

Quantity	Description
1x	BP-SUC-LD - Supercap pack
1x	Data cable Supercap pack, length 20...21 cm
1x	Power cable Supercap pack, length 20...21 cm