



**B.A.S. superlight**  
hydraulic power unit

technical data sheet

**LIBERVIT**  
manufacturer



# LIBERVIT BLACKline

for Police & Gendarmerie  
special forces

# LIBERVIT DÉFENSE

for military forces

From a general point of view, even the highest performance equipment will not by itself solution all the situations.

It does not completely cancel the risk encountered by the special units' users on an operation.

As a manufacturer we OWE to ourselves and to the users to give priority to quality, reliability, performance and innovations.

We will never be confronted to front line situations but you on the other hand are facing them daily in France or elsewhere around the world and sometime while using one of our tools.

It is at this very moment that our choice of components, raw material to manufacture the tools that you are using, at this very moment when you are about to give the "GO ahead" that the equipment must prove itself failproof!

Internationally, France benefits from a strong reputation in the fields of security at the operational knowhow level as much as in the equipment manufacturing.

At LIBERVIT, we are experienced technicians, our professional ethic is unwavering and above all we know and respect those using our products and because of this close relationship we have considered their insights and suggestions in the making of our tools.

We pride ourselves in manufacturing French. All the labelled equipment that you had, have or will have in your hands, are made in France with more than 90% of components and raw materials of French origin or from close European Union countries such as Germany, Norway and Italy.

Our 25 years in the design and manufacturing of hydraulic and mechanical tools with land and water applications for the army and police special forces, our seriousness, our professionalism, and our never ended search for innovations has made us a key player within these professional environments.

LIBERVIT is represented in over 60 countries through our specialized Distributors network offering commercial advice, demos, maintenance and after sale service.

All of the LIBERVIT team and myself are available to ensure that none of your question remains unanswered.

We wish you a pleasant read.

Yvan CARDONA, CEO

## Quality & Reliability

LIBERVIT will provide, for a minimum of 10 years after delivery, any of its tools' spare parts.  
All our equipments comply with CE standard.

Unless otherwise specified by us, our equipments are guaranteed for 3 years from the dispatch date. The guarantee covers construction defects as well as material flaws noted by our services.

Our organization, from engineering to customers' service is ISO 9001 certified. It guarantees a high quality, life-long performance and complete reliability of our tools and equipment.

All our tools undergo rigorous test & control before shipment.





We would like to thank you for the trust you keep showing us every day. LIBERVIT has been and still is extremely proud of manufacturing high quality entry tools and to dedicate its resources to design, developing and sharing experiences with end-users. It honours us to display your insignia, a proof of our long lasting relationship, and it would honour us if you would consider sending us yours to appear in our next edition.

Communication service : [communication@libervit.com](mailto:communication@libervit.com)



# B.A.S. superlight – hydraulic power unit

power supply all the LIBERVIT hydraulic tools from the LIBERVIT BLACKline and LIBERVIT DEFENSE ranges.



## B.A.S. superlight



Compact, light and silent the B.A.S. hydraulic unit power supplies all the LIBERVIT hydraulic tools from the LIBERVIT BLACKline and LIBERVIT DEFENSE ranges.

Transportable on the back, with a shoulder strap or by hand you will be able to evolve in difficult access area while keeping your hands free.

A dashboard protected by a removable flap provides access to the start-up switch as well as to the battery charge status indicator.

The B.A.S hydraulic power unit has an integrated 1.5 m hydraulic hose and a 48V lithium battery offering 120 minutes of working time to a tool.

Functions and accessories within the next pages.



# B.A.S. superlight hydraulic power unit

## TECHNICAL CHARACTERISTICS

hydraulic power unit	ref. B.A.S. superlight
service pressure	300 bar
oil tank capacity	1.24 L - 42 fl oz
outer-shell	Cordura® soft shell (1100 Den)
closing	YKK® water repellent zipper
IP index	IP64
shoulder and chest straps buckles	x3 emergency release buckles
available colours	dark grey or olive green or camouflage
carrying means	back / handheld / shoulder strap
molle® system	yes
left side removable pocket	qty 1, ref. PA1/BSL
lifting ring	at the unit back to lift, air lift, lever, hang
use & storage	T360° multi-position technology
integrated hydraulic hose	1.50 m - 5 ft
hydraulic hose casing	yes
decibels	48 dB*
power supply	qty 1, LIBERVIT 48 V Lithium battery, ref. BI-ION48
autonomy	120 minutes of tool action**
battery removal	manually
battery maximum charging time	35 min (100% charge)
battery charge indicator	yes
auto-shutdown	yes, after 4 hours non-use (auto-shutdown adjustable & can be disabled)
LIBERVIT automatic charger	qty 1, ref. CB-ION48
convertible hand radio remote	qty 1, with molle® system sleeve
power supply cable length	3 m - 10 ft
radio remote range	30 m - 99 ft
connected unit	LIBERVIT Connected app on Google Play & Huawei store (deactivatable Bluetooth)
dimensions	280 x 230 x 390 mm - 11 x 9 x 15.5 inch
weight	11 kg - 24 lbs***

\* test done at a 5 m distance

\*\* test done at a 150 bar average pressure

\*\*\* ready to use without portage means

## ACCESSORIES

interactive radio remote wristband	on option, ref. BRI
cross body shoulder strap	on option, ref. BAS/EPM
peripherals transport bag	on option, ref. STP/BSL
extreme conditions sleeve	on option, ref. HCE/BSL
spare removable pocket	on option, right side (R) : ref. PA2/BSL
spare lithium battery	on option, ref. BI-ION48
magnetic kit	on option, ref. KM/BSL
hook kit	on option, ref. KC/BSL
transport bag	on option, ref. VDT/BSL

On option, the B.A.S. superlight unit, its charger and radio remote can be packed in a solid case.

PELICASE® transport case	ref. VDT/BSL (LIBERVIT BLACKline)	ref. VLD/BSL (LIBERVIT Défense)
available colours	black	olive green
telescopic handle	yes	yes
wheels	yes	yes
dimensions	630 x 510 x 300 mm - 25 x 20 x 12 inch	795 x 518 x 310 mm - 31 x 20 x 12 inch
weight empty	10.5 kg - 23 lbs	13 kg - 28 lbs
case loaded	24.5 kg - 54 lbs	27 kg - 59 lbs



# B.A.S. superlight hydraulic power unit can supply :

The B.A.S. superlight hydraulic power unit supplies all the tools from the LIBERVIT BLACKline and LIBERVIT DEFENSE ranges. We designed this unit with in mind the fact that we wanted it to power supply all our latest tools but also all the LIBERVIT tools manufactured these last 20 years.



spreaders



cutters



jacks



EX50 door opener



OP series  
door opener



mid range HR7  
door opener



VE70-L  
high performance  
door opener

**LIBERVIT**

# TECHNICAL DATAS



A dashboard protected by a removable flap provides access to the start-up switch as well as to the battery charge status indicator.



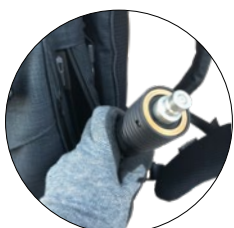
The B.A.S. hydraulic power unit has a 48V lithium battery, giving an average autonomy of 120 minutes in tool action.



The hydraulic power unit is supplied as standard with a hand remote control, wired / wireless convertible, usable at 3 m distance in wired configuration and at 30m distance in wireless configuration.



The use of wired or radio remote control makes it possible, in the event of a trapped door or an armed assailant, to activate the hydraulic power unit while maintaining an essential safety distance. The remote control has a battery charge status indicator. They have long-lasting rechargeable batteries and can be recharged by simply connecting the remote control to the hydraulic unit without requiring a mains supply.



A 1.5 meters hydraulic hose is permanently stored in a dedicated compartment, just open it to extract the hose. The compartment has 2 openings giving you the choice to extract it from left or right.



To protect the battery and increase its autonomy we have fitted the B.A.S superlight unit with an auto-shutdown technology. The auto-shutdown kicks in after 4 hours of non-use. The auto-shutdown can be disabled through the LIBERVIT app and it can be set to a 1 to 8 hours period.



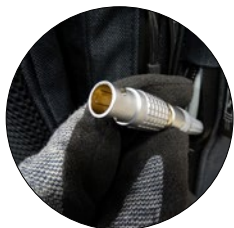
With the T360 technology developed by LIBERVIT, the B.A.S. superlight hydraulic power unit can be used and stored in all positions, while retaining all of its performance.



Removable and washable the B.A.S superlight hydraulic power unit' outer shell is made of multi-layered padded Cordura (1100 Den) and is IP64. It is also fitted with water-repellent zippers and anti-noise partitions.



Foldable a lifting ring at the back of the unit offers a 100% reliable anchor point to lift, air lift and hang..



The integrated wire charges: the lithium battery via the charger as well as the remote-control battery.



The B.A.S superlight hydraulic power unit does not exceed the 45 dB at 5 m.




The LIBERVIT connected application available on the Google Play & Huawei stores will enable you to diagnose your hydraulic power unit and will also indicate: the battery charge status, the number of charges / discharges already done, the oil level, the engine running status, the radio remotes functioning as well as the battery charger, the tool's effort produced and many more useful information.

# BI-ION 48 battery's ballistic tests report for operators' safety



As we aim to provide quality and safety for our users, we've conducted some ballistic impacts tests on our LIBERVIT B.A.S. superlight powered by a Lithium battery ref: BI-ION48. This exhaustive report will give you information on the pros & cons of our batteries. We will keep working hard to improve our equipment and maintain the quality you already know as well as increasing as much as possible our users' safety.

Ballistic impacts tests executed with the arms and calibers listed below:



HK G36  
Fusil automatique

223 Remington  
Cal. 5.56 OTAN



HK 417  
Fusil automatique

308 Winchester  
Cal. 7.62 OTAN

## OBJECTIVE :

Point out potentially dangerous risks, momentary and/or persistent: (explosion/projection/flammable).

## TESTS :

1- Automatic rifle HK417: cal 7.62 OTAN, 308 Winchester, 50 m/164 ft shot :

Instant reaction: white smoke, sparks.

Delayed reaction: after +/- 15 mn, no flame, no flow.

Battery visual aspect: perforated from side to side.

2- Automatic rifle M4: cal 5.56 OTAN, 223 Remington, 50 m/164 ft shot :

Instant reaction: white smoke, no sparks.

Delayed reaction: after +/- 15 mn, no flame, no flow.

Battery visual aspect: perforated from side to side.

3- automatic rifle HK G36: cal 5.56 OTAN, 223 Remington and HK417: cal 7.62 OTAN, 308 Winchester 5 m shot:

Instant reaction: white smoke, no sparks.

Delayed reaction: after +/- 15mn. : no flame, no flow

Battery visual aspect: perforated from side to side



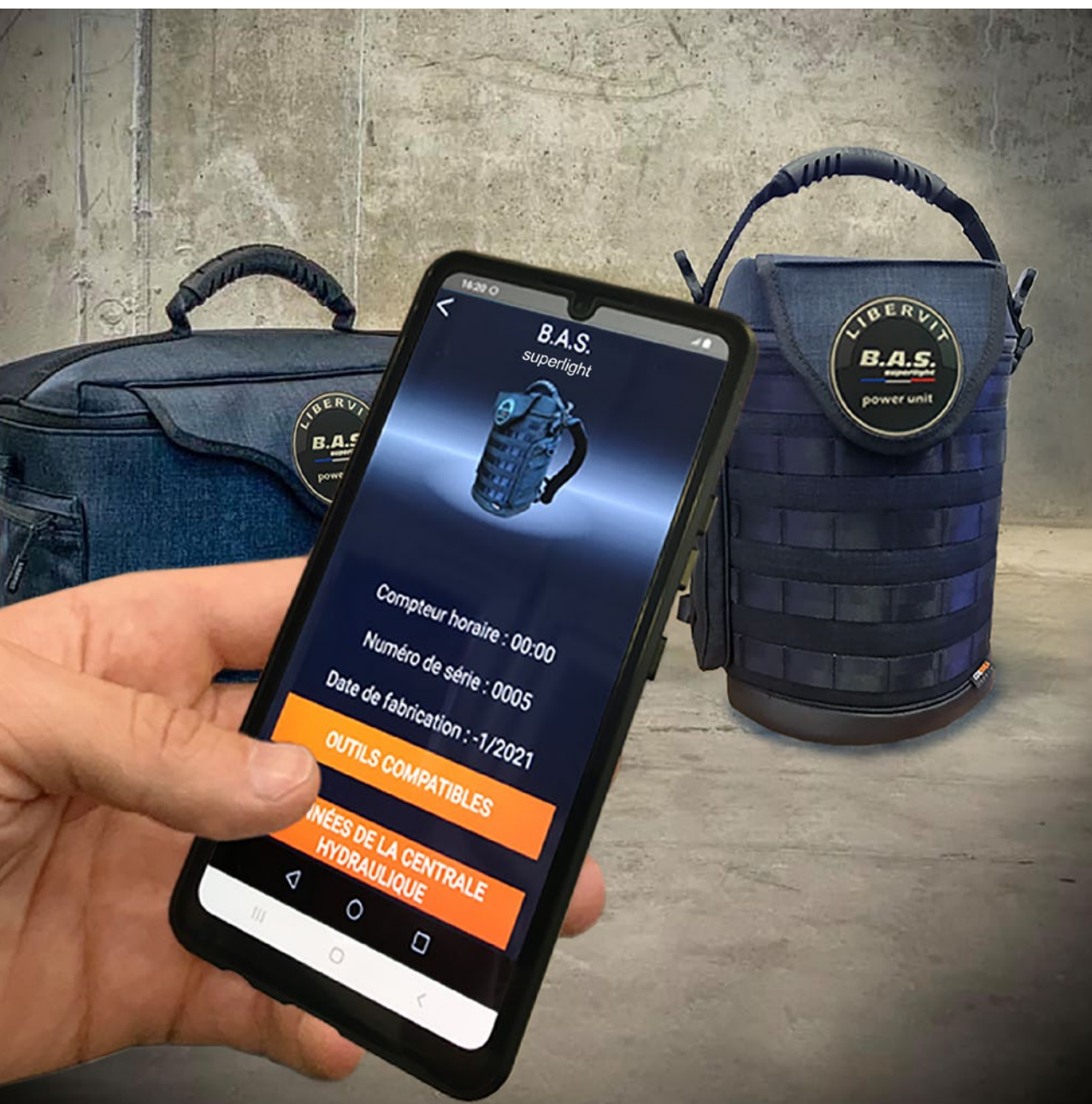
## CONCLUSION :

The different ballistic tests executed gave us the opportunity to find out the damages and their consequences done to a LIBERVIT BI-ION48 battery when shot at. All the batteries have been perforated from side to side generating white smoke but no flame and no flow and no explosion has been witnessed.

**THE USE OF LIBERVIT POWER UNITS IS EXPLOSION AND BURST RISK FREE UNLIKE EQUIPMENTS USING AIR COMPRESSED BOTTLES.**

# LIBERVIT Connected

complete hydraulic power unit diagnosis via the LIBERVIT connected app.





## LIBERVIT Connected



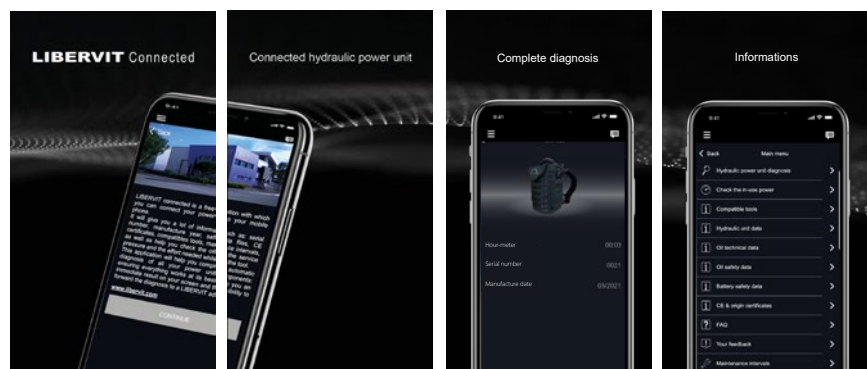
To ease as much as possible our units' preventive maintenance, the B.A.S. superlight unit is delivered in series with a receiving and transmitting data system that all users can access on their smart phone to perform a complete diagnosis of their equipment. The Application LIBERVIT connected can be downloaded from the Google or Huawei store.

- The diagnostic indicates:
- The battery charge status
- The hydraulic oil level
- The engine condition
- The hydraulic pressure
- The radio remotes condition
- The battery charger condition
- The tool's effort (in use with the unit)
- And much more

You will be able to send an email directly from your phone to our technical department with the diagnosis. Our technicians will be able to read the data and act accordingly if a maintenance or repair is needed and help you if it is possible through our Hotline.

 > AFTER SALES SERVICE : [aftersales@libervit.com](mailto:aftersales@libervit.com)

 **AFTER-SALES**  
TOLL FREE **0 805 385 123**









# INTERACTIVE RADIO REMOTE WRISTBAND

on option, the interactive radio remote wristband activates the B.A.S. superlight hydraulic power unit from a distance.





## BRI

The interactive radio remote wristband activates the B.A.S.superlight hydraulic power unit from a distance (maximum range: 30 m). the tool's effort in action in real time is also visible on the screen.

Its waterproof (IP64) touch screen indicates the radio signal, the battery level (10h autonomy in use) , the date and time. The wristband also benefits from a red LED (added light – ON or OFF) and a USB-C port to charge it.

You can check whether the auto-shutdown is activated or not.

Activate or disable the auto-shutdown from the LIBERVIT Connected App.



### TECHNICAL CHARACTERISTICS

Interactive radio remote wristband	ref. BRI
Radio communication :	works with LIBERVIT B.A.S. & B.A.S. superlight power units a range of 30 m
datas :	real time tool's effort in % radio signal level battery level (BRI + BAS superlight) ASD (unit Auto-shutdown) activated / disabled hours/ date
functions :	unit activation visualization of the tool's power used in % red LED (ON/OFF) USB-C port to charge the BRI
screen lighting	high and low screen brightness
battery	LiPo 3.7 V - autonomie 10h
waterproof	yes, IP64
wristband	50mm adjustable strap with Velcro
dimensions	90 x 30 mm - 3.5 x 1 inch
weight	80 g - 3 oz

# B.A.S. superlight power unit's accessories

on option are available some accessories for the B.A.S. superlight





#### CROSS BODY SHOULDER STRAP

Ref. BAS/EPM

The cross body shoulder strap fits on the power unit in place of the shoulder pads with safety buckle for quick ejection and a securing harness for light door openers (available colours : dark grey or olive green or camouflage).



#### RIGHT SIDE REMOVABLE POCKET

Ref: PAZ/BSL

Right spare side removable pocket to fit on the B.A.S. superlight power unit body (available colours : dark grey or olive green or camouflage).



#### PERIPHERALS TRANSPORT BAG

Ref: STP/BSL

The B.A.S. superlight peripherals can be protected and stored in a transport bag: handle, shoulder straps, strap, backrest, battery charger, radio remotes and an extra battery (available colours : dark grey or olive green or camouflage).



#### MAGNETIC KIT

Ref: KM/BSL

With the magnetic kit you can free yourself from the unit weight and plate it against any metallic surface.



#### HOOK KIT

Ref: KC/BSL

To hang the B.A.S. superlight unit when it cannot be left on the floor.



#### EXTREME CONDITION SLEEVE

Ref: HCE/BSL

It will protect your B.A.S. superlight unit from extreme weather conditions such as heavy rain, sandstorm, etc delivered in a pouch adaptable on the molle system or by carabiner.



#### PELICASE® TRANSPORT CASE

Ref: VDT/BSL (LIBERVIT BLACKline) or ref: VDT/BSL (LIBERVIT Défense)

(available colours : black or olive green)

The B.A.S. superlight unit, its battery charger and the radio remotes can be packed in a in a waterproof case. The VDT/BAS is fitted with a high density black foam in which an imprint of the tool has been made to keep it secure during transport or storage.

We use the PELICASE® brand for its quality and reliability. Our cases all meet the military and air transport norms, have wheels and a foldable handle.



CE

LIBERVIT  
B.A.S.  
superlight  
power unit

CORHURA

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LIBERVIT  
B.A.S.  
power unit

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