Harley Benton

ISO-Li05 PowerBank

Quick start guide

This document contains important information on the safe use of the product. Read and follow the safety instructions and all other instructions. Keep the document for future reference. If you pass the product on to others, please include this document.
Contents are subject to change. Please refer to the latest version of the documentation, which is available for download at *www.thomann.de*.

Safety instructions

Intended use

This device generates extra-low voltage from the mains voltage, for example for powering effects pedals. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damage resulting from improper use.
This device may be used only by persons with sufficient physical, sensory, and intellectual abilities and the necessary knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Risk of injury and choking hazard for children!

Children can suffocate on packaging material and small parts. Children can injure themselves when handling the device. Never allow children to play with the packaging material and the device. Always store packaging material out of the reach of babies and small children. Always dispose of packaging material properly when it is not in use. Never allow children to use the device without supervision. Keep small parts away from children and make sure that the device does not shed any small parts (such as knobs) that children could play with.

Damage to connected effects pedals due to overvoltage or incorrect polarity!

If unsuitable effects pedals are connected to the device, or if the output voltage and polarity on the power output of the device do not match the voltage specifications of the effects pedal, connected effects pedals can be damaged by overvoltage or incorrect polarity. If things go badly, overvoltage or incorrect polarity can also cause a risk of injury and fire. Only use the designated connection cables with the device. Make sure that the output voltage on the power output of the device is suitable for the effects pedal to be operated and has the correct settings where applicable, and that the polarity is correct. If in doubt, compare the voltage specifications on the effects pedal and the polarity (+/-) with the specifications in this manual and printed on the device. Voltage and polarity must always match.

Damage to the device due to use of unsuitable external power supplies!

If the device is operated with an unsuitable external power supply, the device can be damaged by overvoltage or incorrect polarity. If things go badly, using an unsuitable power supply can also cause a risk of injury and fire. Only use the external power supply designated for the device or an equivalent external power supply with identical parameters. If in doubt, compare the voltage specifications on the external power supply and the polarity (+/-) with the specifications in this manual and printed on the device. Voltage and polarity must always match.

Damage to the external power supply due to high voltages!

The device is powered by an external power supply. The external power supply can be damaged if it is operated with the incorrect voltage or if high voltage peaks occur. In the worst case, excess voltages can also cause a risk of injury and fires. Make sure that the voltage specification on the external power supply matches the local power grid before plugging in the power supply. Only operate the external power supply from professionally installed mains sockets that are protected by a residual current circuit breaker (FI). Ensure that the power cord plug is easily accessible at all times if it is the only device to safely disconnect the device from the mains supply. As a precaution, disconnect the power supply from the power grid when storms are approaching or if the device will not be used for a longer period.

Possible damage to lithium-ion batteries through incorrect storage!

Deep discharge can permanently damage lithium-ion batteries or cause them to lose some of their capacity. Charge the lithium-ion batteries before longer breaks in use and before storage. Ensure that the device is switched off for storage. Store the device at room temperature or cooler in an environment as dry as possible. Recharge the lithium-ion batteries about every three months if they are stored for a longer period of time to avoid permanent damage due to too deep self-discharge. Fully charge the lithium-ion batteries at room temperature immediately before use.

Damage to the device if operated in unsuitable ambient conditions!

The device can be damaged if it is operated in unsuitable ambient conditions. Only operate the device indoors within the ambient conditions specified in the "Technical specifications". Avoid operating it in environments with direct sunlight, heavy dirt and strong vibrations. Avoid operating it in environments with strong temperature fluctuations. If temperature fluctuations cannot be avoided (for example after transport in low outside temperatures), do not switch on the device immediately. Never subject the device to liquids or moisture. Never move the device to another location while it is in operation. In environments with increased dirt levels (for example due to dust, smoke, nicotine or mist): Have the device cleaned by qualified specialists at regular intervals to prevent damage due to overheating and other malfunctions.

General handling

- To prevent damage, never exert force while operating the device.
- Never immerse the device in water. Wipe only with a clean and dry cloth. Do not use liquid cleaners such as benzene, thinners or flammable cleaning agents

Keep foreign substances away from the device!

Keep the device away containers with liquid. Should liquid enter the device, this could lead to its destruction or fire. Ensure that no metallic parts enter the device.

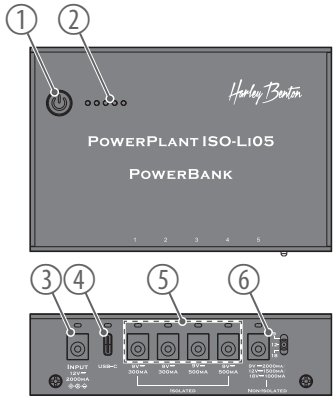
Features

- Power bank with 5 direct voltage outputs for powering effects with a high power consumption and multi-effects devices
  - 4 × isolated output: 2 × 9 V at 0.3 A each, 2 × 9 V at 0.5 A each
  - 1 × non-isolated output: 9 V ⎓ 2 A/12 V ⎓ 1.5 A/18 V ⎓ 1 A (voltage can be selected)
- 1 × output: USB-C 18 W for power supply and for charging tablets and phones
- High current rating for modern digital effects
- LED monitoring on every output
- Compact design for easy installation below the pedal board
- Dimensions (W × H × D): 130 mm × 35 mm × 88 mm
- Weight: 465 g
- Included: 1 × power adapter with 12 V ⎓ at 2 A
  3 × DC cable, 60 cm long with 5.5 mm × 2.1 mm coaxial plug to 5.5 mm × 2.1 mm coaxial plug
  2 × direct current cable, 30 cm long with 5.5 mm × 2.1 mm coaxial plug to 5.5 mm × 2.1 mm coaxial plug
  1 × direct current cable, 45 cm long with 5.5 mm × 2.1 mm coaxial plug to 5.5 mm × 2.5 mm coaxial plug

Harley Benton

ISO-Li05 PowerBank

Connections and controls



1 *[⏻]* | Main switch. Turns the device on and off.

2 LED power status indicator. Indicates faults and battery life.

3 *[INPUT]* | Connection for supplied power adapter, 12 V ⎓ @ 2 A Indicator LED, lights up green when the battery is charged.

4 *[USB-C]* | For charging mobile devices. Indicator LED lights up when a mobile device is being charged.

5 Outputs 1 to 4 isolated, 2 × 9 V ⎓ @ 0.3 A, 2 × 9 V ⎓ @ 0.5 A. Indicator LED for each output lights up green when voltage is present, lights up red when the output is deactivated due to overload.

6 Output 5 not isolated, can be switched between 9 V ⎓ @ 2 A/12 V ⎓ 1.5 A/18 V ⎓ @ 1 A. Indicator LED lights up green when voltage is present, lights up red when the output is deactivated due to overload.

Using the product

1. Connect the device to the power grid using the included power supply. This charges the built-in lithium battery. The indicator LED ② indicates the charging process.
2. Turn on the device on using the main switch ①.
3. Use outputs ⑤ and suitable power supply cables to connect effects pedals or similar devices that require 9 V ⎓ of supply voltage at a maximum of 0.3 mA or a maximum of 0.5 A.
4. Use output ⑥ and suitable power supply cables to connect effects pedals or similar devices that require 9 V ⎓, 12 V ⎓ or 18 V of supply voltage at a maximum of 1 A, 1.5 A or 2 A. Move the corresponding switch into the position for the required voltage.
5. Each output that is ready for operation is indicated by an LED that lights up green. If an overload of one output causes it to be switched off, the LED lights up red. In that case, disconnect the relevant pedal from the device. Normal voltage provision is restored after approx. 2 seconds.
6. To turn off the device, press the main switch ①.

Technical specifications

Input connections	Power supply	Socket for power adapter
Output connections	1 × USB-C 18 W	
	2 × DC socket 9 V ⎓ 0.3 A (isolated)	
	2 × DC socket 9 V ⎓ 0.5 A (isolated)	
	1 × DC socket 9 V ⎓ 2 A/12 V ⎓ 1.5 A/18 V ⎓ 1 A (not isolated)	
Maximum output power:		
Output USB-C:		18 W
Output 1 – 4:		14.4 W
Output 5:		18 W
Output USB-C + output 5:		36 W
Output USB-C + output 1 – 4:		32.4 W
Output USB-C + output 1 – 4 + output 5:		32.4 W
Output 1 – 4 + output 5:		32.4 W

Battery	Battery type	Lithium-ion
	Voltage	7.2 V
	Capacity	5 Ah
	Operating time	1 Wh (under full load)
	Charging time	2 h
Operating voltage		9/12/18 V
Power adapter	Secondary current	3 A
	Secondary voltage	12 V ⎓
	Polarity	Centre negative
International Protection Rating	IP20	
Dimensions (W × H × D)		130 mm × 35 mm × 88 mm
Weight		465 g
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20%...80% (non-condensing)

Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner. Do not dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the instructions and markings on the packaging.

Batteries must not be thrown away or burnt, but must instead be disposed of in line with the local regulations on the disposal of hazardous waste. Use the available collection sites. Only dispose of lithium batteries when they are empty. Remove lithium batteries from the device before disposal if this is possible without destroying it. Protect used lithium batteries against short circuit, for example by taping the poles. Dispose the built-in lithium batteries together with the device. Check for an appropriate collection facility. Dispose of the batteries and rechargeable batteries at the appropriate collection points or through your local waste facility.

This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) as amended. Do not dispose of your old device with your normal household waste; instead, deliver it for controlled disposal by an approved waste disposal firm or through your local waste facility. If in doubt, consult your local waste management facility. You can also return the device to a retailer if they offer to take the device back for free or if they are legally obliged to do so. When disposing of the device, comply with the rules and regulations that apply in your country. You can also return your old device to Thomann GmbH at no charge. Check the current conditions on *www.thomann.de*. Proper disposal protects the environment as well as the health of your fellow human beings. This is because the proper handling of old devices negates the potential negative effects of hazardous substances, and because it conserves resources by recycling them. Also note that waste avoidance is a valuable contribution to environmental protection. Repairing a device or passing it on to another user is an ecologically valuable alternative to disposal. If your old device contains personal data, delete those data before disposing of it.

Observe the disposal note regarding documentation in France.