darklab

3.5 LightningBolt
Machine Battery

USER MANUAL

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3.5 LightningBolt

III

CLASS III SYMBOL

A Class III appliance is designed to be supplied from a separate/safety extra-low voltage (SELV) power source. The voltage from a SELV supply is low enough that under normal conditions a person can safely come into contact with it, without the risk of electrical shock. The extra safety features built into Class I and Class II appliances are, therefore, not required. For medical devices, compliance with Class III is not considered sufficient protection, and further more-stringent regulations apply to such equipment.

TECHNICAL DATA

Operating Voltage:	5-12 V DC
Current:	UP TO 1 A
Ambient Temperature:	+10 to +35 °C
Relative Humidity:	30 to 75%
Dimensions (Ø X L):	H56 x W49 X L27 mm
Weight:	Approx. 58g (2oz)
Charging Port:	USB-C

BARRIER PROTECTING YOUR MACHINE

We strongly suggest the use of barrier products to protect your machine. For a visual demonstration of barrier protection methods, please visit our YouTube channel FK Irons.

This device is only for use by trained tattoo artists and not for the use by children or persons of reduced physical, sensory or mental capabilities.

3.5 LightningBolt

THE LIGHTNINGBOLT 3.5

Unleash Your Power

The first wireless battery line featuring complete Bluetooth connectivity, and a whole new sense of freedom.
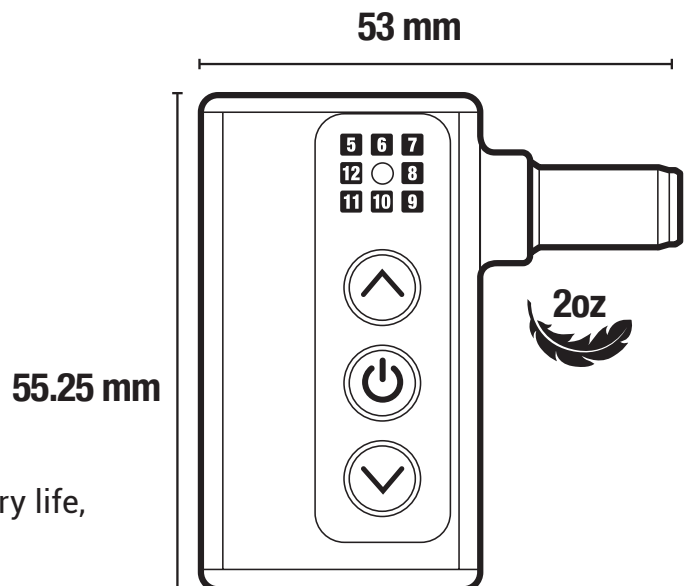
3.5 LightningBolt

OVERVIEW

Dynamic Power Path Management
USB-C Li-ion Battery

Compact Battery Housing

LED Indicator

Bluetooth Enabled:
Pair with Darklab app

Voltage Guide

3.5mm Connector

Control Buttons

USB-C Port

SPECIFICATIONS

- Output Voltage: 5 – 12 V
- Increment/decrement voltage interval: 0.5 V
- Maximum output current: 1.0 A
- Charger Input: USB-C / 1.0 A
- Size: H55.25mm x W24.5mm x L53mm
- Weight: 58g (2 oz)
- Battery life: An average of 5-6 hours of battery life, dependent on functional preferences*.

*Needle resistance, machine speed (voltage/hertz), and stroke.

53 mm

55.25 mm
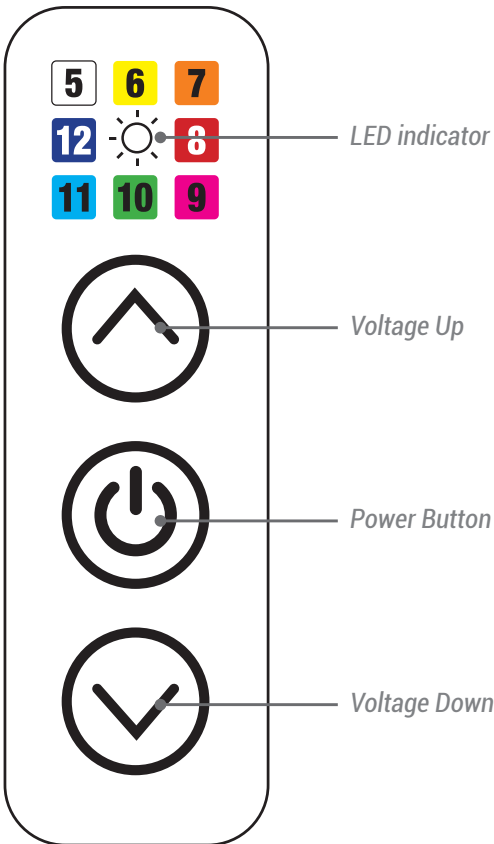
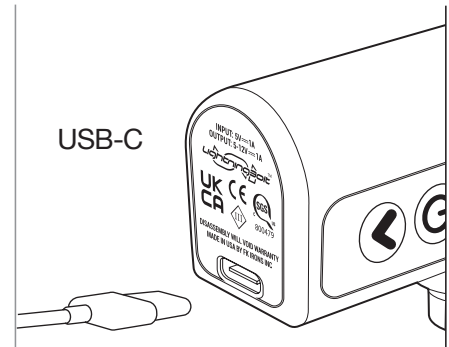**2oz**

FEATURES

Features:

- Higher energy density to provide high reliability & stability
- Dynamic power path management: USB-C Li-Ion battery
- Automatic fault detection
- Automatic jumpstart feature
- Fast charging speed: up to 1.0 A
- Extremely compact & convenient to carry
- Compatible with most 3.5mm machines
- Bluetooth enabled to pair with Darklab app
- Device firmware update functionality via app
- Shipping mode functionality
- Software reset

Compatible with most 3.5mm machines.

LightningBolt 3.5

GETTING STARTED

For your safety, this power unit has been shipped disabled. To activate, plug into a USB-C power source and charge completely until the LED light remains solid green. **It's important to charge for a minimum of 3 hours prior to first use.**
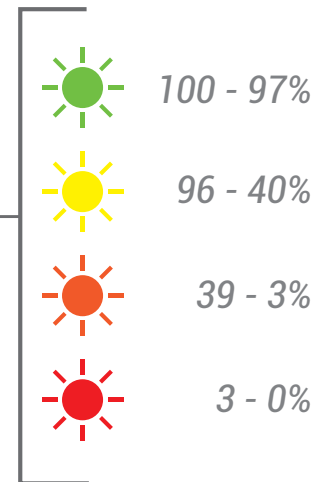
USB-C

LED indicator

Voltage Up

Power Button

Voltage Down

LED Indicator:

Single blink = Whole Value

Double blink = Half Increment

Ex. Solid green indicates 10V
Flashing green indicates 10.5V

Battery Level Check:

Press and hold power button until white. On release color = %

Note: LED flashes while battery charges. Once < 3% is reached, a red light will blink alternately with voltage.

100 - 97%

96 - 40%

39 - 3%

3 - 0%

Automatic Fault Detection:

Overcharge Detection (OVP)

Over-Discharge Detection (UVP)

Charge Overcurrent Detection (OCC)

Discharge Overcurrent Detection (OCD)

Load Short-Circuit Detection (SCP)

Over- Temperature Detection (OVT)

Menu Modes: Press and hold power button.

Hard shut off: Hold the power button until the LED indicator is red, battery is now disabled. To re-activate the battery, plug into any USB-C power source.

Device reset: ⏻ ➕ ⌄

V. 63 Only

Bluetooth on: Hold the power button until the LED indicator turns blue, then release the power button.

Bluetooth off: Hold the power button until the LED indicator turns yellow, then release the power button.

eGIVE

eGIVE ADJUSTMENT

With this feature you'll be able to control the amount of "give" or resistance of the needle upon impact with the skin. This enables the artist to take advantage of the softness or hardness of hit to achieve specific results. 0 is no effect, 5 is maximum amount of eGive.

Download on the Mac App

HOW TO CHECK THE CURRENT eGIVE SETTING

- Hold down the power button until the light goes from white to solid blue.
- Release the power button.
- The following blinking color that the LED displays indicates the Give that the unit is currently set at. For example:
  - If it blinks white, that indicates the lowest Give of 0
  - If it blinks yellow, it's currently set at level 1 Give
  - If it blinks orange, it's currently set at level 2 Give
  - If it blinks red, it's currently set at level 3 Give
  - If it blinks pink, it's currently set at level 4 Give
  - If it blinks green, it's currently set at level 5 (softest eGive setting)

CHANGING eGIVE

To raise or lower the give:
  - Hold down the power button until the light goes from white to solid blue.
  - Release the power button and immediately use the up or down arrows to change the give. The colors should change accordingly.

○ White - eGive of 0

● Yellow - level 1 eGive

● Orange - level 2 eGive

● Red - level 3 eGive

● Pink - level 4 eGive

● Green - level 5 eGive (softest setting)

ADDITIONAL INFORMATION

VOLTAGE PARAMETERS

While voltage is a parameter that will vary from artist to artist, the LightningBolt 3.5 has been tested to operate at a minimum voltage of around 5-Volts with a maximum voltage of 12-Volts. Depending on the type of needle configuration, or brand you use, feel free to adjust the voltage to obtain the desired performance. **NOTE: Some machines require a minimum voltage to operate correctly, please check your machine manufacturer's requirements.**

WARRANTY

Darklab warrants that the device will perform efficiently when used as intended. Should this product prove to be defective due to manufacturing issues, Darklab will repair/replace the device - free of charge. This warranty will be void if the device shows signs of having been tampered, disassembled, handled roughly, dropped, overexposed to moisture or damage resulting in compromised functionality.

HANDY TIPS

The following tips will help you get the most out of your LightningBolt 3.5 and avoid potential issues:

- Do not exceed the suggested voltage.
- Use only quality cables. A good connection will ensure consistent performance.
- Use only FDA-approved cold sterilization solutions for disinfection.
- Use Darklab USB cable and adapter.
- **NOT AUTOCLAVABLE.**

ADDITIONAL INFORMATION

TROUBLESHOOTING

1.- Machine Manufacturer

FK Irons: 1771 NW 79th Avenue, Doral, Florida 33126

2.- Servicing Your Machine

As for any mechanical device, FK Irons strongly suggests that you service your device once a year to ensure all working parts are working as expected. This ensures the optimal condition of all working parts including internal machine clean up and fresh lubrication. Routine servicing will ensure that your machine remains functioning like the very first day. Service is subject to fees.

3.- Warning

Disconnect machine from any power before making any adjustments.

For service inquiries, please contact service@fkirons.com.

For additional tips and tutorials, please visit Youtube.com/fkirons