

CHARGING HUB

Continuous Onboard AC Power



ABOUT THE CHARGING HUB

The Kraken Power Charging Hub was designed to simplify electrical design for apparatuses equipped with the latest battery-powered tools. Favoring AC power for lower current at faster charge times, the tool charging hub takes AC input from inverter or AC shore power, to distribute to various battery chargers and AC outlets



Continuous 3 kW Output
While Out of the Station



Zero-Emission
"Plug & Play" installation

SOLUTION

Kraken Power Charging Hub: The Heart of Your Onboard Power Ecosystem

In the world of emergency response, having a reliable and robust power system is critical. The Kraken Power Charging Hub is designed to be the heart of your vehicle's power ecosystem, ensuring that every tool, device, and system onboard is ready to perform at a moment's notice.

Whether you're outfitting a fire truck, ambulance, or other specialty vehicle, the Kraken Power Charging Hub provides a centralized power source that seamlessly integrates with all onboard equipment. From HVAC systems to scene lights, and from submersible pumps to advanced battery-powered rescue tools, the Charging Hub ensures continuous and reliable power delivery.

Key Features of the Charging Hub Ecosystem

- **Centralized Power Management:** The Kraken Power Charging Hub efficiently manages power distribution across all critical systems, ensuring that your vehicle is always operational, even in the most demanding environments.
- **Versatile Connectivity:** The Charging Hub supports a wide range of tools and devices, including battery-operated saws, rescue tools, hand tools, and high-powered fans, making it an indispensable part of your emergency response arsenal.
- **Integrated with Instagrid portable generators:** For portable power needs, the Charging Hub connects seamlessly with Instagrid portable high-output battery generators, providing flexible power options wherever they are needed, whether on the scene or in remote locations.
- **Enhanced Vehicle Capabilities:** With the Charging Hub at the core, vehicles are transformed into highly capable mobile command centers, capable of sustaining prolonged operations without the need for external power sources.

APPLICATIONS

- **Firefighting Vehicles:** Powering essential equipment like battery-operated fans, submersible pumps, and scene lighting to ensure safe and effective operations.
- **Ambulances:** Keeping medical equipment, HVAC systems, and other critical systems running smoothly, ensuring patient care is never compromised.

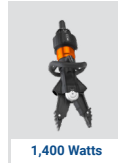
PROBLEM

Insufficient power to support new battery-powered tools.

- 1 Starter batteries are being overused, leading to premature failure.
- 2 Tool batteries require up to 4 hours to charge.
- 3 Apparatuses have only low voltage 12VDC power.
- 4 AC power only available when plugged in to shore power at the station.

CHARGING POWER CONSUMPTION

RESCUE TOOLS



1,400 Watts

POWER TOOLS



1,400 Watts

PPV FANS



600 Watts

3,400 Watts

Needed for full tool charge

2,400 Watts

Available shore+truck charging

= 1,000 Watts

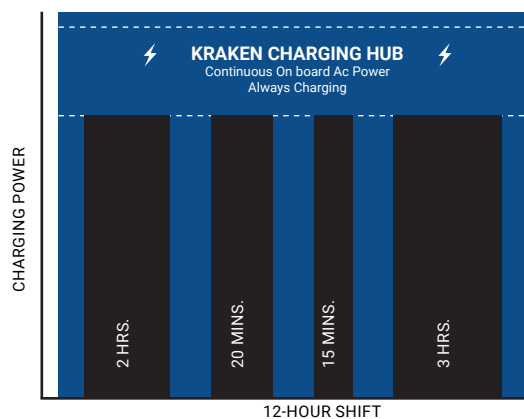
Additional power needed for full charge

TIME IN STATION = INCOMPLETE TOOL CHARGE

3,400 Watts For Full Charge

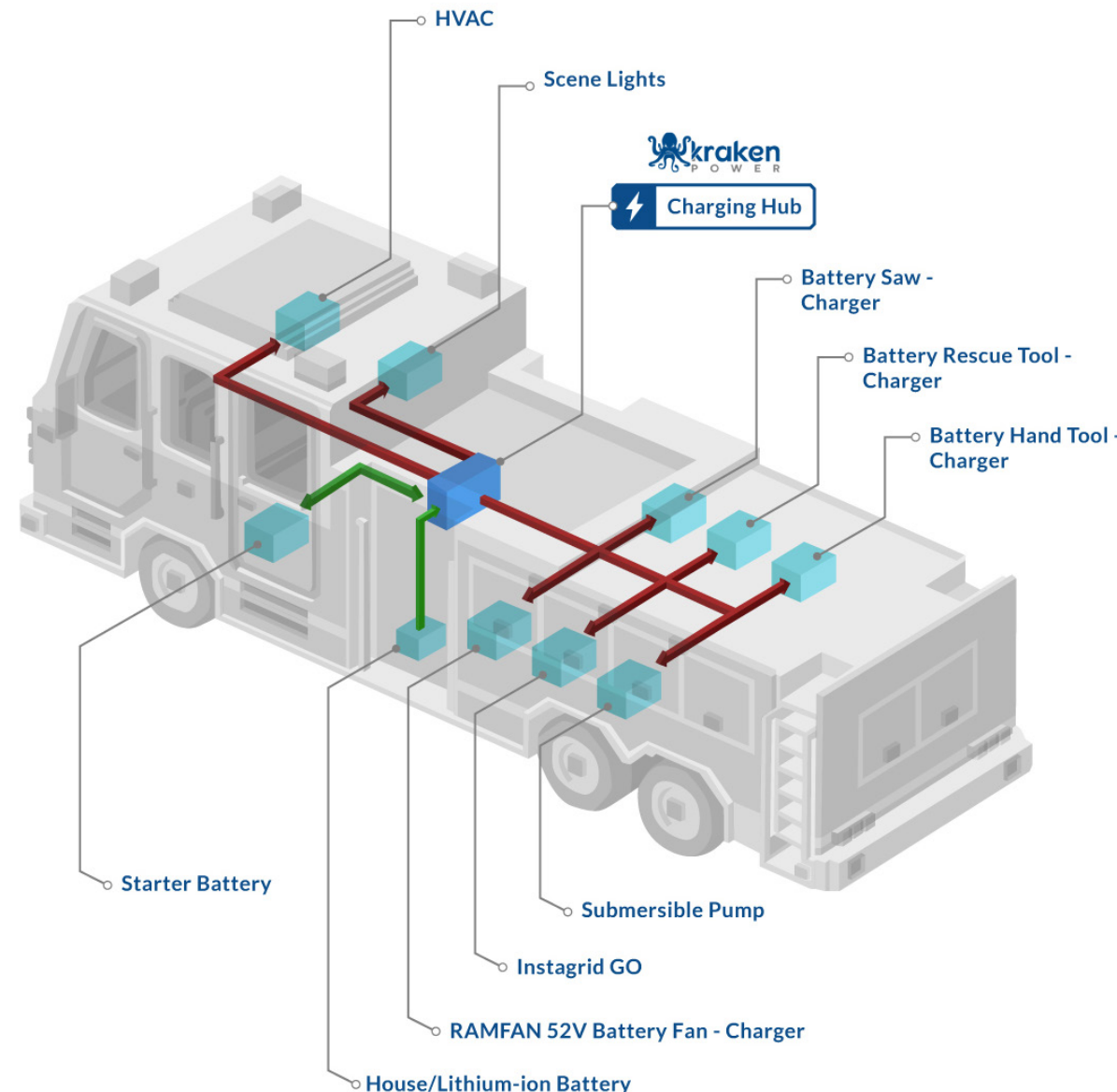
Station Charge Power Only 2,400Watts

Shore Power Charge Time
Kraken Charge Time



STATION & APPARATUS CHARGING CAN'T KEEP BATTERIES LIFE CHARGED

Firefighting shift schedules Don't allow enough time to Fully charge tool batteries. On board ac charging systems Are needed to keep tools fully Charged and mission ready!





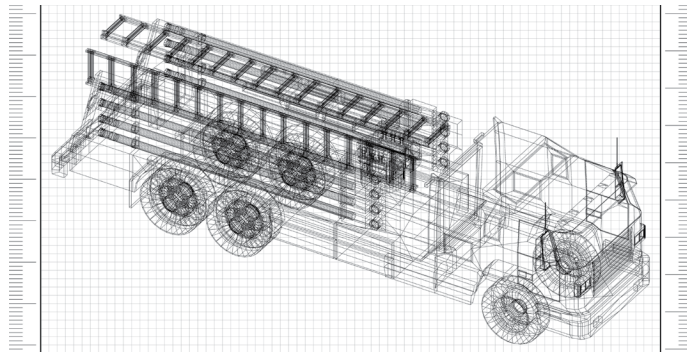
WHAT TO EXPECT

Navigating the procurement of an onboard electrical system for your fire apparatus or ambulance can be daunting, especially if it's your first time considering a comprehensive solution like Kraken Power. We've simplified the process into clear, actionable steps, ensuring a smooth and tailored experience.



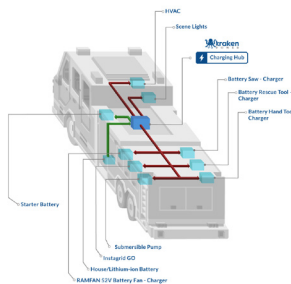
Initial Customer Consultation

We start by getting to know your specific needs. Our detailed questionnaire covers all the essential aspects of your vehicle's power requirements, helping us understand what you're looking for, even if you haven't previously developed a detailed procurement specification.



System Proposal and Configuration

Once we have your questionnaire, our Kraken//PRO team will develop a single-line electrical drawing. This serves as both a guide for system development and an inspiration for you to imagine all the possibilities—what else can you power up with Kraken Power on board?



Pricing and Payment Terms

After reviewing the initial design, we'll work with you to make any necessary adjustments. Once you're satisfied, Kraken//PRO will sign off on the final specification, ensuring that everything is in line with your expectations and operational needs.



Installer Selection and Approval

With the final specifications approved, you can confidently place your order. We'll then schedule production. Installation must be carried out by a Kraken-approved installer, ensuring your system is built to the highest standards.

Post-Sale Support and Warranty

Kraken Power will remain available to provide support throughout the installation process and beyond. All installers receive adequate training on the installation and servicing of the Kraken Power Charging Hub, ensuring everything runs smoothly from start to finish.



GET YOUR CUSTOM ONBOARD CHARGING SPEC

Fill out this worksheet, email a picture of it to theteam@krakenpower.com, and we'll send you your custom fit out guide.

Charging Hub Questionnaire

1. Inputs

- What is voltage and current of Alternator?
 - 12V 24V
 - Amps
 - If more than one alternator, how many amps is secondary alternator? Amps
- Starter battery bank
 - How many batteries?
 - Ah per battery?
 - Battery group size?
- What voltage and current is shore power?
 - 120V
 - 15A 20A 30A
 - 240V
 - 16A 32A 48 A

2. Accessory/House battery bank

- Which battery bank will you be using?
 - Accessory Battery House Battery
- Which brand and type of batteries in your system?
 - Lithium AGM Other
- How many batteries?
 - Ah per battery?
- Battery group size?

3. Outputs

- Voltage selection
 - DC: 12V 24V 48V
 - AC: 120V/60Hz 230V/50Hz
- List DC devices and loads
- List AC devices and loads
- How many AC outlets do you plan to install?
- Desired DC low voltage shutdown?
(battery voltage at which you would like the inverter to shut down)

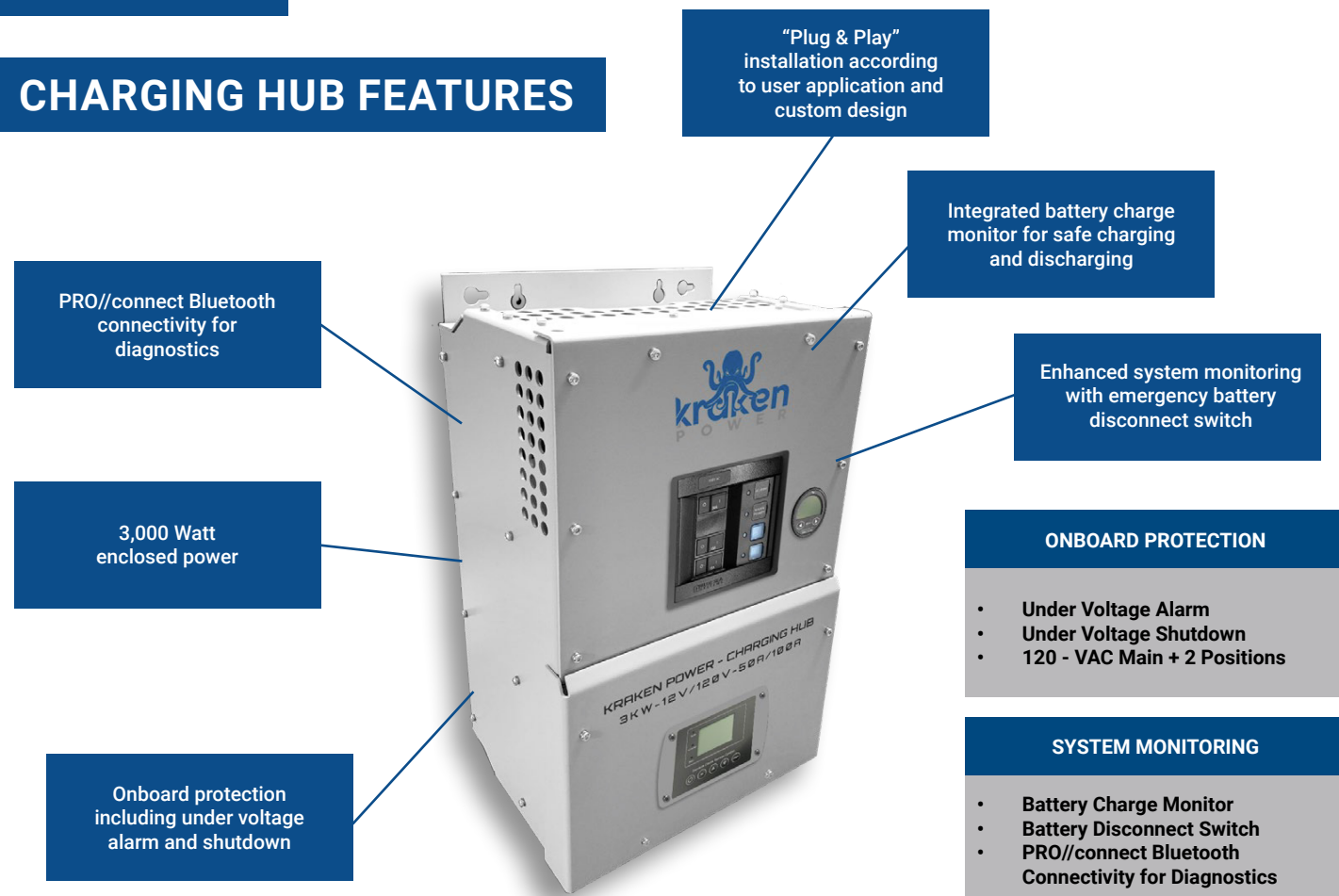
4. Location

- Where will you mount the Charging Hub?
- Where will you mount the Accessory battery bank?
(Recommend minimum two batteries to avoid excessive voltage drop during high loads)
- Approximate straight line distance between starter batteries and charging hub mounting location?



Prefer to fill it out on your mobile device?
Scan to access a mobile-friendly form!

CHARGING HUB FEATURES



Streamlined Installation with Plug & Play Design

At Kraken Power, we understand the importance of installation efficiency, whether you're outfitting a new vehicle or upgrading an existing fleet. The Kraken Power Charging Hub is specifically engineered to simplify the installation process with its "plug & play" design, making it a seamless addition to any build.

For OEM Body Builders

Integrating advanced power management features into your vehicles has never been easier. The Kraken Power Charging Hub is designed to slot effortlessly into your production process, adding state-of-the-art capabilities without increasing complexity. This means you can enhance your vehicles' power systems while maintaining your build efficiency.

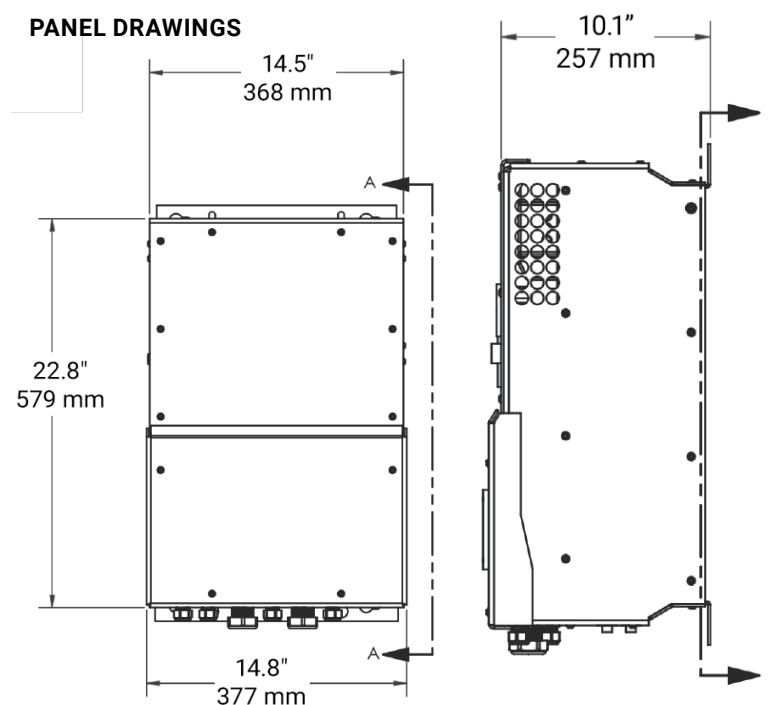
For Aftermarket Upgrades

Upgrading the electrical system of an existing fleet truck can be challenging and costly, but the Kraken Power Charging Hub changes the game. Its straightforward installation not only reduces complexity but also cuts down on labor costs, making it an ideal solution for modernizing your fleet with minimal disruption.

SPECIFICATIONS

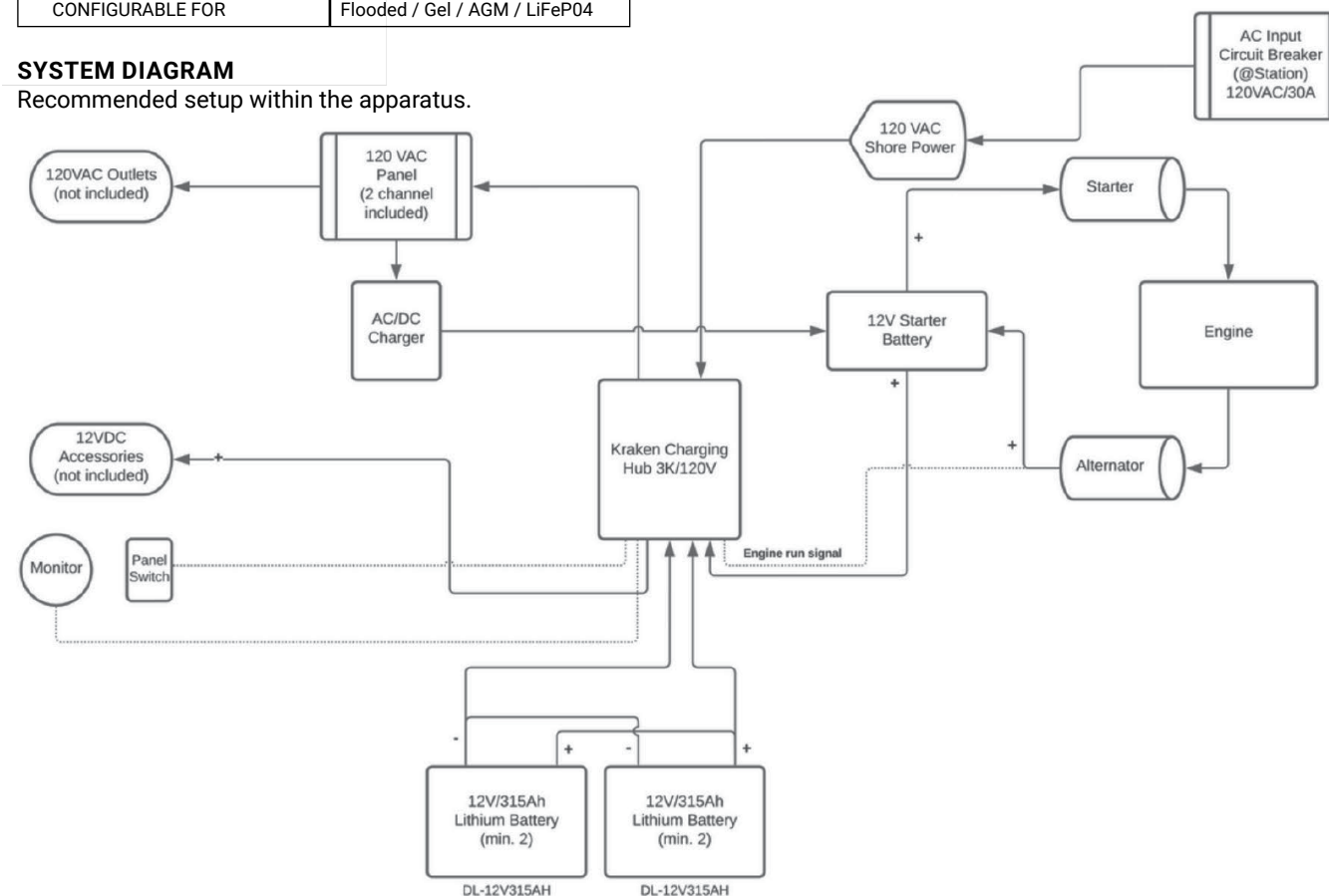
TECHNICAL SPECIFICATIONS	
ORDER NUMBER	KP123K100-120
MODEL CONFIGURATION	12 VDC input, 3 kW output power, 100 A shore power current, 120 VAC output
DIMENSIONS (H x W x D)	25 x 15 x 11 in / 64 x 38 x 28 cm
WEIGHT	62 lbs / 28 kg
INVERTER	
AC OUTPUT POWER	3,000 W Pure Sinewave
AC OUTPUT CURRENT	25 A
AC SURGE POWER (PEAK)	6,000 W
OUTPUT/VOLTAGE FREQUENCY	120 VAC / 60 Hz
NOMINAL INPUT VOLTAGE	12.8 VDC
AC TRANSFER SWITCH	
TRANSFER TIME	<30 ms
AC INPUT SOURCE SETTING	15 / 20 / 30A
AC OUTPUT	30A MAX
BATTERY CHARGING	
SHORE POWER	100 A MAX
ALTERNATOR	50 A
CONFIGURABLE FOR	Flooded / Gel / AGM / LiFeP04

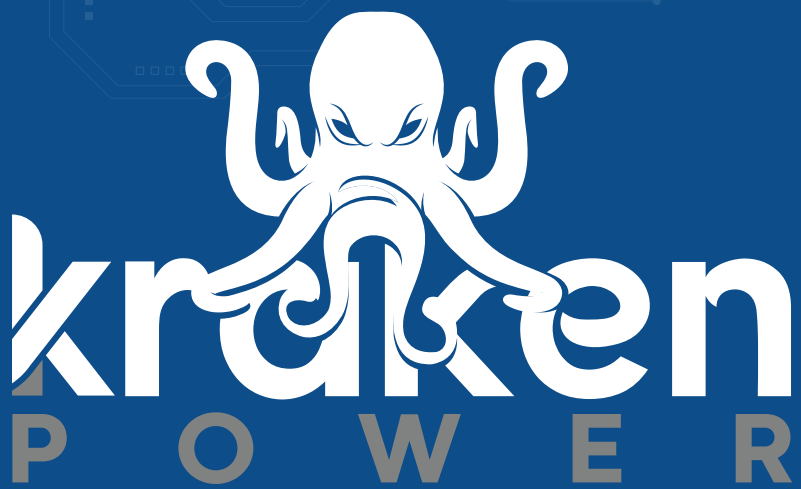
PANEL DRAWINGS



SYSTEM DIAGRAM

Recommended setup within the apparatus.





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