



Elio
ELECTRO TECH CC

BUSINESS COMPANY PROFILE

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31 CARDIFF AVENUE, APEX,
BENONI, 1540

2026 - 2027
EDITION

ABOUT US

Established in 2002, Elio Electro Tech is a leading electrical engineering company specialising in the design, manufacture, delivery, and maintenance of high-quality electrical systems for the mining, industrial, manufacturing, commercial, and food and beverage sectors. For over two decades, we have earned a reputation for delivering reliable, safe, and innovative engineering solutions that meet the demanding requirements of modern operations across Africa.

At Elio Electro Tech, we understand that dependable electrical infrastructure is not simply a technical requirement, it is fundamental to operational efficiency, safety, and long-term business success. Our experienced team combines technical expertise, practical industry knowledge, and engineering excellence to develop solutions that perform reliably in the most demanding industrial and mining environments.

Our capabilities include the design, manufacture and supply of Motor Control Centres (MCCs), jumbo drill starters (boomer box), gully rig starters, variable speed drive (VSD) systems, soft starters, distribution boards, control panels, power distribution equipment, and fully customised electrical solutions engineered to meet each client's unique operational requirements. Working closely with our customers, we deliver cost-effective, energy-efficient, and durable systems that maximise productivity while minimising downtime.

Innovation is central to everything we do. As industries evolve and operational challenges become increasingly complex, we continuously develop intelligent engineering solutions that address immediate project requirements while supporting our clients' long-term strategic objectives. From concept development and system design through manufacturing, testing, delivering, and ongoing technical support, we provide an integrated service that delivers measurable value throughout the project lifecycle.

With an established footprint across Africa, Elio Electro Tech combines international best practices with extensive local experience to successfully execute projects in diverse operating environments. As a trusted partner to leading global electrical technology brands, we provide scalable, high-performance solutions that comply with industry standards while remaining practical, reliable, and tailored to local conditions.

Our commitment to quality, innovation, customer satisfaction, and long-term partnerships has established Elio Electro Tech as a trusted provider of electrical engineering solutions throughout Africa. We remain dedicated to helping our clients improve operational performance, reduce risk, and achieve sustainable business success through engineering excellence.

VISION

To become a trusted leader in industrial electrical and automation solutions, recognised for technical excellence, innovation, quality and lasting customer relationships.

MISSION

To provide reliable, innovative and tailored electrical and automation solutions that solve real-world challenges, while delivering exceptional service, technical expertise and long-term value to every customer.



MEET THE TEAM



Managing Member

Elias Elhadj

With a lifelong passion for engineering, Elias Elhadj founded Elio Electro Tech with a vision to build something of his own. His fascination with engineering began as a child, taking apart and rebuilding radios, and today he takes pride in turning ideas into practical, engineered solutions. Elias is proud of Elio's growth and its reputation for trust, quality workmanship, innovation, flexibility and engineered solutions. His philosophy is simple: hard work, dedication and perseverance, and never give up. When he's not building Elio, you might find him reminiscing about his days in an 80s heavy metal and rock 'n' roll band!



General Manager

Warren Elhadj

With 7 years at Elio Electro Tech, Warren Elhadj has grown alongside the company through continuous learning and a deep understanding of its operations. He takes pride in the responsibility and trust placed in Elio by its customers, always believing in keeping your head down and pushing forward. What makes Elio special to him is its close relationship with customers, the ability to tailor solutions to their needs, and being part of a family-run business. Outside of work, he's a self-confessed petrol head with a serious love for turbos! His philosophy? "Work Hard, Play Hard"



Sales Manager

Candice De Freitas

With 5 years at Elio Electro Tech, Candice started in Internal Sales and has grown into her role as Sales Manager, overseeing the sales team and customer relationships. She is passionate about providing professional, solution-focused service and building long-term customer relationships. Her philosophy is simple: "We're not trying to make a sale; we're trying to gain a customer." Outside of work, Candice enjoys relaxing with a good series, especially true crime, because apparently solving crimes from the couch is a perfectly valid hobby.



Workshop Manager

Byron Zackey

With 10 years of industry experience, Byron Zackey oversees Elio Electro Tech's production and workshop operations. He takes pride in delivering projects on time, to specification and to a high standard, while ensuring customer satisfaction every step of the way. He is particularly proud of the quality and workmanship that Elio has established across its manufactured products. Safety, clear communication and ensuring that every team member understands their responsibilities are central to his approach. Outside of the workshop, Byron is an avid gamer, proving that when the workday is done, there's always another challenge to tackle!



OUR PEOPLE

Behind every Elio solution is a team committed to engineering excellence, quality workmanship and customer satisfaction

2650+ Projects Delivered

24+ Years Industry Experience

350+ Customers Served

10+ Countries Reached

30+ Team Members

5+ Departments



One team. One standard. One purpose.



OUR CAPABILITIES

ENGINEERED FROM CONCEPT TO DELIVERY

Engineering & Design

Electrical design, system development and application-specific engineering. Our approach combines technical expertise with an understanding of the environments in which our systems will operate, ensuring that solutions are designed with reliability, safety, efficiency and long-term performance in mind



Manufacturing

Panel manufacture, assembly and integration. We focus on quality workmanship, accurate assembly and practical construction to ensure that each solution meets the required application and performance requirements



Testing & Quality Control

Inspection, testing and verification before delivery. We take a thorough approach to verifying equipment performance and workmanship, helping to identify potential issues before equipment reaches site and ensuring that our customers receive solutions that are ready for reliable operation



Delivery

Once equipment has been manufactured and tested, we ensure that completed solutions are prepared and delivered to the customer according to the project requirements. Our focus is on reliable, quality-assured equipment that is ready for use upon delivery.



After Sales Support

We recognise that reliable electrical infrastructure requires ongoing support throughout its operational life. Elio provides maintenance and technical assistance aimed at helping customers maintain equipment performance, minimise disruption and address operational challenges when they arise



PRODUCT PORTFOLIO

8kW TO 315kW
PUMP PANEL

RELIABLE. ROBUST. ENGINEERED FOR PERFORMANCE.

Built for Mining Applications



50/60Hz
FREQUENCY



IP65
RATED



400V to 1000V
OPERATING
VOLTAGE



12kA @1000V
SHORT CIRCUIT
BREAKING
CAPACITY



SPECIFICATIONS

⚡	MAXIMUM POWER	8kW TO 315kW
⚡	OPERATING VOLTAGE	400V to 1000V
⚡	RATED CURRENT (In)	—
⚡	CONTROL VOLTAGE	24V TO 110V
⚡	SHORT CIRCUIT BREAKING CAPACITY	12kA @1000V
⚡	IP RATING	65
⚡	EARTH LEAKAGE	YES
⚡	PILOT CIRCUIT	OPTIONAL
⚡	VICTOR SOCKET	OPTIONAL

SPECIFICATIONS

📏	FRAME DIMENSIONS	1750H x 900W x 500D
📏	FRAME THICKNESS	3mm
📏	PANEL DIMENSIONS	900H x 600W x 300D
📏	PANEL THICKNESS	2mm
🔒	HINGES + LOCKS	STAINLESS STEEL
🔒	GLAND PLATE	STAINLESS STEEL & MILD STEEL
🎨	COLOUR	RAL9003
🔒	INNER DOOR	YES
🔒	OUTER DOOR	YES

ADDITIONAL FEATURES



CABLE ACCESS
OPTIONS



INTEGRATED
ISOLATION



RESISTANT
HARDWARE



BUILT TO PERFORM
Engineered for
demanding conditions



ENGINEERED FOR
RELIABILITY
Quality components for
long-lasting performance



SAFETY FIRST
Designed with safety
in every detail



QUALITY YOU
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Built to the highest
industry standards



PRODUCT PORTFOLIO

8kW TO 315kW
FAN PANEL

RELIABLE. ROBUST. ENGINEERED FOR PERFORMANCE.

Built for Mining Applications



50/60Hz
FREQUENCY



IP65
RATED



400V to 1000V
OPERATING
VOLTAGE



12kA @1000V
SHORT CIRCUIT
BREAKING
CAPACITY



SPECIFICATION

⚡	MAXIMUM POWER	8kW TO 315kW
⊕	OPERATING VOLTAGE	400V to 1000V
⚡	RATED CURRENT (In)	—
⚡	CONTROL VOLTAGE	24V TO 110V
⚡	SHORT CIRCUIT BREAKING CAPACITY	12kA @1000V
⚡	IP RATING	65
⊕	EARTH LEAKAGE	YES
⚡	PILOT CIRCUIT	OPTIONAL
⚡	VICTOR SOCKET	OPTIONAL

SPECIFICATION

📏	FRAME DIMENSIONS	1750H x 900W x 500D
📏	FRAME THICKNESS	3mm
📏	PANEL DIMENSIONS	900H x 600W x 300D
📏	PANEL THICKNESS	2mm
🔒	HINGES + LOCKS	Stainless Steel
🔒	GLAND PLATE	Stainless Steel & Mild Steel
🎨	COLOUR	RAL9003
🚪	INNER DOOR	YES
🚪	OUTER DOOR	YES

ADDITIONAL FEATURES



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PRODUCT PORTFOLIO

160kW / 30kW JUMBO (BOOMER) STARTER

RELIABLE. ROBUST. ENGINEERED FOR PERFORMANCE.

Built for Mining Applications



50/60Hz
FREQUENCY



IP65
RATED



400V, 525V
& 1000V
OPERATING
VOLTAGE



12kA @1000V
SHORT CIRCUIT
BREAKING
CAPACITY



SPECIFICATION			
	MAXIMUM POWER	160kW	30kW
	OPERATING VOLTAGE	400V, 525V, 1000V	400V, 525V, 1000V
	RATED CURRENT (In)	160A	32A
	CONTROL VOLTAGE	110V	110V
	SHORT CIRCUIT BREAKING CAPACITY	12kA @1000V	12kA @1000V
	IP RATING	65	65
	EARTH LEAKAGE	YES	YES
	PILOT CIRCUIT	YES	OPTIONAL
	VICTOR SOCKET	YES	OPTIONAL

SPECIFICATION	
	FRAME DIMENSIONS 1900H x 1250W x 500D
	FRAME THICKNESS 3mm
	PANEL DIMENSIONS 1050H x 950W x 300D
	PANEL THICKNESS 2mm
	HINGES + LOCKS Stainless Steel
	GLAND PLATE Stainless Steel & Mild Steel
	COLOUR RAL9003
	INNER DOOR YES
	OUTER DOOR YES

ADDITIONAL FEATURES



CABLE ACCESS
OPTIONS



INTEGRATED
ISOLATION



RESISTANT
HARDWARE



BUILT TO PERFORM
Engineered for
demanding conditions



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PRODUCT PORTFOLIO

160kW / 30kW
AUSTRALIAN SPEC
JUMBO (BOOMER) STARTER

RELIABLE. ROBUST. ENGINEERED FOR PERFORMANCE.

Built for Mining Applications





50/60Hz
FREQUENCY



IP65
RATED



1000V
OPERATING
VOLTAGE



12kA @1000V
SHORT CIRCUIT
BREAKING
CAPACITY

SPECIFICATION		
	MAXIMUM POWER	160kW / 30kW
	OPERATING VOLTAGE	1000V
	RATED CURRENT (In)	160A / 32A
	CONTROL VOLTAGE	110V
	SHORT CIRCUIT BREAKING CAPACITY	12kA @1000V
	IP RATING	65
	EARTH LEAKAGE	YES
	PILOT CIRCUIT	OPTIONAL
	VICTOR SOCKET	OPTIONAL

SPECIFICATION		
	FRAME DIMENSIONS	1900H x 1250W x 500D
	FRAME THICKNESS	3mm
	PANEL DIMENSIONS	1050H x 950W x 300D
	PANEL THICKNESS	2mm
	HINGES + LOCKS	Stainless Steel
	GLAND PLATE	Stainless Steel & Mild Steel
	COLOUR	RAL 5017
	INNER DOOR	YES
	OUTER DOOR	YES

ADDITIONAL FEATURES



CABLE ACCESS
OPTIONS



INTEGRATED
ISOLATION



RESISTANT
HARDWARE



BUILT TO PERFORM
Engineered for
demanding conditions



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PRODUCT PORTFOLIO

315kW TRIPLE PUMP SOFT STARTER

RELIABLE. ROBUST. ENGINEERED FOR PERFORMANCE.

Built for Mining Applications



50/60Hz
FREQUENCY



IP65
RATED



1150VAC
OPERATING
VOLTAGE



12kA
@1000V
SHORT CIRCUIT
BREAKING
CAPACITY

1000V



AVAILABLE IN A DUAL AND SINGLE
PUMP SOFT STARTER

SPECIFICATIONS

⚡ MAXIMUM POWER	945kW
⚡ OPERATING VOLTAGE	1150VAC
⚡ RATED CURRENT (In)	—
⚡ CONTROL VOLTAGE	110V
⚡ SHORT CIRCUIT BREAKING CAPACITY	12kA @1000V
⚡ IP RATING	65
⚡ EARTH LEAKAGE	YES
⚡ PILOT CIRCUIT	NO
⚡ SOFT STARTER	3 x 315kW 1000VAC

SPECIFICATION

☑ FRAME DIMENSIONS	2200H x 4000W x 700D
☑ FRAME THICKNESS	3mm
☑ PANEL DIMENSIONS	1450H x 3700W x 500D
☑ PANEL THICKNESS	2mm
☑ BUSBAR RATING	1000A
☑ HINGES + LOCKS	STAINLESS STEEL
☑ GLAND PLATE	MILD STEEL
☑ COLOUR	RAL9003
☑ INNER DOOR	NO
☑ OUTER DOOR	YES

ADDITIONAL FEATURES



CABLE ACCESS
OPTIONS



INTEGRATED
ISOLATION



RESISTANT
HARDWARE



BUILT TO PERFORM
Engineered for
demanding conditions



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PRODUCT PORTFOLIO

185kW
CRUSHER
VSD PANEL

RELIABLE. ROBUST. ENGINEERED FOR PERFORMANCE.

Built for Mining Applications



50/60Hz
FREQUENCY



IP65
RATED



525V
OPERATING
VOLTAGE



36kA
SHORT CIRCUIT
BREAKING
CAPACITY



SPECIFICATION

OPERATING VOLTAGE	525V
RATED KILOWATT	185kW
CONTROL VOLTAGE	24V - 110V
SHORT CIRCUIT BREAKING CAPACITY	36kA
IP RATING	IP65
EARTH LEAKAGE	NO
PILOT CIRCUIT	YES
VICTOR SOCKET	NO

SPECIFICATION

PANEL DIMENSIONS	1400H x 600W x 400D
PANEL THICKNESS	2mm
BUSBAR CURRENT	NA
HINGES + LOCKS	STAINLESS STEEL
GLAND PLATE	NA
COLOUR	RAL2000
INNER DOOR	NO
OUTER DOOR	YES

ADDITIONAL FEATURES



CABLE ACCESS
OPTIONS



INTEGRATED
ISOLATION



RESISTANT
HARDWARE



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PRODUCT PORTFOLIO

1250A
CHANGEOVER PANEL

RELIABLE. ROBUST. ENGINEERED FOR PERFORMANCE.

Built for Mining Applications



50/60Hz
FREQUENCY



IP54
RATED



400V
OPERATING
VOLTAGE



50kA
SHORT CIRCUIT
BREAKING CAPACITY



SPECIFICATIONS

OPERATING VOLTAGE	400V
RATED CURRENT (In)	1250A
CONTROL VOLTAGE	NA
SHORT CIRCUIT BREAKING CAPACITY	50kA
IP RATING	54
LOAD OUTPUT	1250A
GENERATOR KVA INPUT	900KVA

SPECIFICATIONS

PANEL DIMENSIONS	815H x 450W x 250D
PANEL THICKNESS	2mm
BUSBAR CURRENT	1250A
HINGES + LOCKS	STAINLESS STEEL
GLAND PLATE	STAINLESS STEEL
COLOUR	RAL3001
INNER DOOR	YES
OUTER DOOR	YES

ADDITIONAL FEATURES



CABLE ACCESS
OPTIONS



INTEGRATED
ISOLATION



RESISTANT
HARDWARE



BUILT TO PERFORM
Engineered for
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PRODUCT PORTFOLIO

8kW to 150kW
DRILL RIG
GULLY STARTER

RELIABLE. ROBUST. ENGINEERED FOR PERFORMANCE.

Built for Mining Applications



50/60Hz
FREQUENCY



IP65
RATED



1000V
OPERATING
VOLTAGE



20kA
@1000V
SHORT CIRCUIT
BREAKING
CAPACITY

SPECIFICATION	
OPERATING VOLTAGE	1000V
RATED CURRENT (In)	—
CONTROL VOLTAGE	24V - 110V
SHORT CIRCUIT BREAKING CAPACITY	20kA @1000V
IP RATING	65
EARTH LEAKAGE	YES
PILOT CIRCUIT	YES
VICTOR SOCKET	YES

SPECIFICATION	
PANEL DIMENSIONS	700H x 500W x 250D
PANEL THICKNESS	2mm
BUSBAR CURRENT	NA
HINGES + LOCKS	STAINLESS STEEL
GLAND PLATE	STAINLESS STEEL
COLOUR	RAL2000
INNER DOOR	NO
OUTER DOOR	YES

ADDITIONAL FEATURES



CABLE ACCESS
OPTIONS



INTEGRATED
ISOLATION



RESISTANT
HARDWARE



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Engineered for
demanding conditions



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PRODUCT PORTFOLIO

8kW to 150kW GULLY STARTER

RELIABLE. ROBUST. ENGINEERED FOR PERFORMANCE.

Built for Mining Applications



50/60Hz
FREQUENCY



IP65
RATED



1150VAC
OPERATING
VOLTAGE



12kA
SHORT CIRCUIT
BREAKING CAPACITY
@1000V

SPECIFICATIONS

OPERATING VOLTAGE	1150VAC
RATED CURRENT (In)	—
CONTROL VOLTAGE	24V - 110V
SHORT CIRCUIT BREAKING CAPACITY	12kA @1000V
IP RATING	65
EARTH LEAKAGE	YES
PILOT CIRCUIT	OPTIONAL
VICTOR SOCKET	OPTIONAL

SPECIFICATIONS

PANEL DIMENSIONS	815H x 450W x 250D
PANEL THICKNESS	2mm
ENCAPSULATED BUSBAR	800A
HINGES + LOCKS	STAINLESS STEEL
GLAND PLATE	STAINLESS STEEL
COLOUR	RAL9003
INNER DOOR	NO
OUTER DOOR	YES

ADDITIONAL FEATURES



MODULAR
ENCLOSURE
SYSTEM



CABLE ACCESS
OPTIONS



INTEGRATED
ISOLATION



RESISTANT
HARDWARE



BUILT TO PERFORM
Engineered for
demanding conditions



ENGINEERED FOR
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PRODUCT PORTFOLIO

80A TO 400A
GULLEY RIGS

RELIABLE. ROBUST. ENGINEERED FOR PERFORMANCE.

Built for Mining Applications



50/60Hz
FREQUENCY



IP65
RATED



1150VAC
OPERATING
VOLTAGE



12kA
SHORT CIRCUIT
BREAKER CAPACITY

THIS RIG INCLUDES FEEDERS AND INCOMER



SPECIFICATION		
	OPERATING VOLTAGE	1150VAC
	RATED CURRENT (In)	80A TO 400A
	CONTROL VOLTAGE	110V
	SHORT CIRCUIT BREAKING CAPACITY	12kA
	IP RATING	65
	EARTH LEAKAGE	YES
	PILOT CIRCUIT	OPTIONAL
	VICTOR SOCKET	OPTIONAL

SPECIFICATION		
	PANEL DIMENSIONS	815H x 400W x 250D
	PANEL THICKNESS	2mm
	BUSBAR CURRENT	800A
	HINGES + LOCKS	STAINLESS STEEL
	GLAND PLATE	STAINLESS STEEL
	COLOUR	RAL9003
	INNER DOOR	NO
	OUTER DOOR	YES



MODULAR
ENCLOSURE
SYSTEM



CABLE ACCESS
OPTIONS



INTEGRATED
ISOLATION



RESISTANT
HARDWARE



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PRODUCT PORTFOLIO

PORTABLE CONTAINERISED SUBSTATION (MCC TYPE)

RELIABLE. ROBUST. ENGINEERED FOR PERFORMANCE.

Built for Mining Applications



SPECIFICATION

1 OPERATING VOLTAGE	525V
2 INCOMING / MAIN SWITCHGEAR (ACB)	3200A
3 OUTGOING FEEDERS	4 OUTPUTS, 800A EACH
4 HVAC	X2 96,000 BTU, REFRIGERANT R410A BRAND: CARRIER
5 FIRE PROTECTION	2 x CO ₂ , FIRE EXTINGUISHERS (5kg EACH)
6 IP RATING	IP65
7 EARTH LEAKAGE	YES
8 SHORT CIRCUIT BREAKING CAPACITY	42KA @690V

SPECIFICATION

12 DIMENSIONS (L x W x H)	6058mm x 2438mm x 2896mm
13 CONTAINER TYPE	20ft HC
14 CONTAINER MATERIAL	CORTEN STEEL
15 PAINT COLOUR	RAL 9003 (WHITE)
16 INTERNAL LIGHTING	LED
17 FLOOR FINISH	RUBBERISED FLOORING
18 CABLE ENTRY	WITH GLAND PLATES
19 ACCESS DOOR	LOCKABLE PERSONAL DOOR

ADDITIONAL FEATURES



ROBUST
CONSTRUCTION



EASY
MAINTENANCE



SAFE &
RELIABLE



WEATHER
RESISTANT



MINING
GRADE



EMERGENCY
EXIT



BUILT TO PERFORM
Engineered for
demanding conditions



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PRODUCT PORTFOLIO

0.7kW TO 360kW PER TOWER

CRS RECTIFIER

RELIABLE. ROBUST. ENGINEERED FOR PERFORMANCE.

Built for Mining Applications



50/60Hz
FREQUENCY



IP31
TO IP65
DEGREE OF
PROTECTION



120V to 690V
OPERATING
VOLTAGE



SINGLE
PHASE
AND
THREE PHASE



SPECIFICATIONS

	MAXIMUM POWER	0.7kW TO 360kW PER TOWER
	OPERATING VOLTAGE	120V TO 690V
	RATED CURRENT (In)	10A TO 10500A PER TOWER
	CURRENT RIPPLE	<2%
	OPERATION MODE	CURRENT OR VOLTAGE CONTROL
	CURRENT REGULATION RANGE	2 - 100%
	VOLTAGE REGULATION RANGE	5 - 100%
	ACCURACY	1% OF FULL SCALE
	POWER FACTOR	0.70 @ RATED LOAD (STANDARD) >0.95 @ RATED LOAD (WITH OPTIONAL PFC)
	COOLING	AIR & WATER
	DEGREE OF PROTECTION	IP31 TO IP65

INDUSTRIES / APPLICATIONS

	E-COAT (ELECTROPHORETIC COATING)
	WATER TREATMENT
	ELECTRO WINNING
	ELECTRO PLATING
	ANODIZING
	CHROMING
	BATTERY CHARGING
	MAGNET CONTROL
	AVIATION
	TITANIUM COLORING
	PLASMA TORCH
	CATHODIC PROTECTION

ADDITIONAL FEATURES



CABLE ACCESS
OPTIONS



INTEGRATED
ISOLATION



RESISTANT
HARDWARE



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CASE STUDIES

DUAL 315KW 1000V SOFT STARTER PUMP PANELS



Elio supplied customised dual- and triple-pump 315 kW soft-starter panels designed for underground dewatering applications. These systems pump water from the underground dam to the surface dam using two or three 315 kW motors, with our largest unit providing 945 kW of installed capacity.

The panel uses a staged start/stop sequence to prevent voltage dips and transformer overload:

Start: Pump 1 starts first, followed by Pump 2, and then Pump 3 once each motor is fully up to speed.

Stop: The pumps shut down in reverse order to avoid pressure shocks and maintain system stability

This sequencing ensures reliable operation, protects the power network, and reduces mechanical stress on the pumping system.

ELIMINATING CABLE DAMAGE ON A LOCOMOTIVE CRANE WITH A BATTERY-POWERED SOLUTION

A long-term customer experienced recurring downtime and maintenance costs caused by damaged power cables on a locomotive crane.

Our engineering team designed and manufactured a battery-operated electrical control box, allowing the crane to operate without trailing power cables.

The system charges overnight and features a low-battery alarm to give operators advance warning and prevent unexpected downtime.



Since implementation, the solution has eliminated cable damage, reduced maintenance costs and downtime, and improved the crane's mobility and operational flexibility. It provided a reliable, cost-effective alternative to the traditional cable power supply.



CASE STUDIES

COOLING OPTIMISATION FOR UNDERGROUND VSD INSTALLATIONS



A client operating multiple Variable Speed Drives (VSDs) underground was experiencing high operating temperatures due to heat becoming trapped within sealed, high-IP-rated enclosures. The confined underground environment increased the risk of overheating, reduced efficiency and premature component failure. Elio redesigned the enclosure by separating the VSD heatsink section into a dedicated cubicle with a lower IP rating, allowing heat to dissipate more effectively while maintaining a high level of protection for the sensitive electronic components.

The redesigned system significantly reduced internal temperatures, reduced thermal stress on the equipment and improved overall VSD reliability. This provided the client with a practical, cost-effective cooling solution suited to the demanding underground environment.

CUSTOM DC SUPPLY SOLUTION FOR SCRAP METAL LIFTING



A customer required a reliable DC power supply for an electromagnet used to lift scrap metal, with precise control over lifting strength for different loads.

Elio supplied a 250 VDC, 50 A CRS Power Rectifier with a custom-built control box featuring a 10-position selector switch. This allowed operators to easily adjust the output current according to the load, improving lifting efficiency while reducing energy use and equipment strain.



BRAND PARTNERS



CUSTOMERS



GET IN TOUCH

Johannesburg

Office Number: 011 849 9231

Email: office@elio.co.za

Address: 31 Cardiff Avenue
Apex, Benoni,
Gauteng, South Africa

DRC Branch

Lufupa Mining Services SARL

Office Number: +243 833027268

Email: sales@lufupaservices.com

Address: N*250, Manika, Kolwezi, DRC



Website
<https://elio.co.za>



Online Store
<https://online.elio.co.za>



Instagram
[@elio_electro_tech_cc](https://www.instagram.com/elio_electro_tech_cc)



LinkedIn
Elio Electro Tech CC



Facebook
Elio Electro Tech



Elio
ELECTRO TECH CC