

HELIOS

POWER SOLUTIONS



AC/DC



DC/DC



DC/AC



BACKUP



AC/AC



PROTECTION

Quality Power Solutions
Backed Up By Real World Engineering Experience

HELIOS

POWER SOLUTIONS

A well established group of 5 companies with 40 years of experience



1987-2016



1979-2016



Since 2015



1979-2016



2000-2015

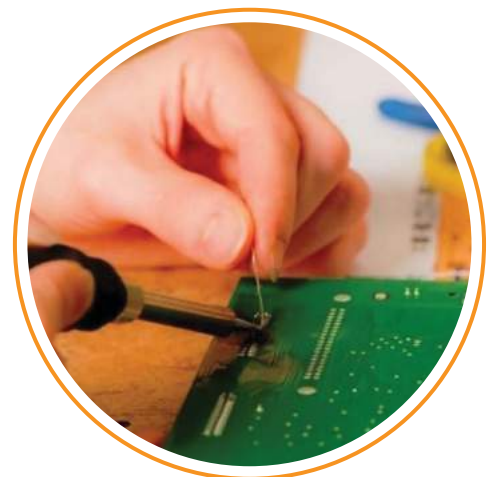
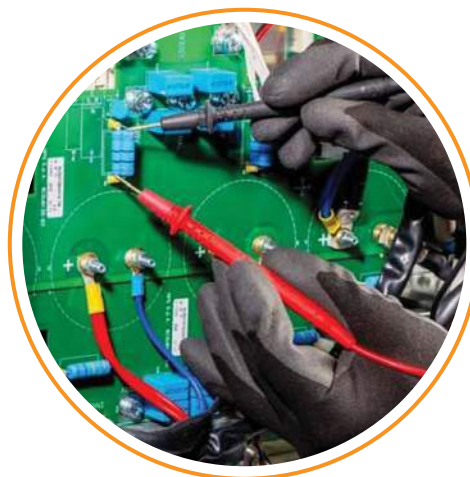
Your Ideal Power Conversion & Protection Partner

What we do

From standard off-the-shelf products to a large customised floor mount systems Helios Power Solutions offers a comprehensive and varied range of products which have been selected to exceed the expectations of our clients.

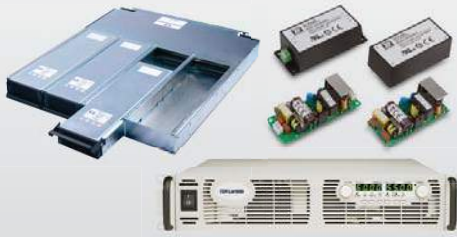
Our Expertise

We firmly believe that a well executed project is all about having a clear understanding of the application. The proactive team at Helios has a crew of engineers who have been working for more than two decades for the company. Safety compliances, unique configurations, rugged environments, and special mounting requirements are not new for us because they belong to our daily power conversion challenge.



Our Products

AC/DC Power Supplies



- Options
- + Wide Power Range (1 - 15000 W)
 - + Single & Multioutput Output Voltage
 - + Communications Alarms
 - + DC Distribution
 - + Hot Swappable Modules
 - + Modular & Scaleable Solutions
 - + Variable & Configurable Output

- Mounting
- + Standalone -Benchtop
 - + Adapters & External
 - + DIN Rail Mount
 - + Open Frame
 - + Panel Mount
 - + 19" Rackmount
 - + PCB Mount
 - + Floor Mount

DC/DC Converters



- Options
- + Special Input / Output Combinations On Request.
 - + Convection / Fan Cooled
 - + Alarms
 - + High DC Input Voltage At High Temperature
 - + N+1 Redundancy
 - + Railway Standards - PCB Mount Vented Case And Encapsulated DC/DC Converters
 - + Fully Isolated Range

- Mounting
- + DIN Rail Mount
 - + Open Frame
 - + Panel Mount
 - + 19" Rackmount
 - + PCB Mount

Battery Chargers



- Options
- + Cyclic Applications
 - + Standby Applications (DC UPS)
 - + Special Designs For Security Systems
 - + Boost Chargers
 - + LVD & Temperature Compensation
 - + Real Time Auto- Diagnostic
 - + Digital I/O
 - + Communications & Alarms
 - + Integrated Batteries Options
 - + Any Output From 12 - 270V

- Mounting
- + Standalone -Benchtop
 - + DIN Rail Mount
 - + Open Frame
 - + Panel Mount
 - + 19" Rackmount
 - + PCB Mount

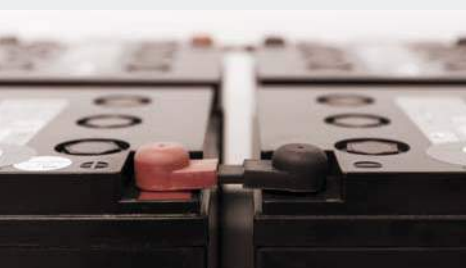
DC/AC Inverters



- Options
- + AC/AC Frequency Converters
 - + DC - AC Input
 - + Convection / Fan Cooled
 - + Single & Multiphase Output
 - + Modular inverters up to 3kVA Per Module.
 - + N+1 Redundancy
 - + Communications & Alarms
 - + Special Input / Output Combinations On Request.
 - + Outdoor Applications

- Mounting
- + Standalone -Benchtop
 - + Chassis Mount
 - + Panel Mont
 - + Frame & Panel Mount
 - + 19" Rackmount

Batteries



- Options
- + High Temperature Applications
 - + Stable Mains Applications
 - + Deep Cycle Applications
 - + Unstable Mains Applications
 - + High Power Applications
 - + 2 V or 12 V Batteries
 - + Pure Lead Acid - Lead Carbon & Lithium
 - LFP Options.

- Applications
- + Telecom Backup
 - + Cable TV
 - + Emergency Lighting
 - + Railway
 - + Oil & Gas
 - + UPS
 - + Renewable Energy Systems
 - + Engine Start & Hybrid Gensets
 - + Electric Vehicles

DC Power Systems & Accessories



Rectifiers

- + Convection & Fan Cooled
- + 12 V 24 V 48 V 110 V 220 V Output Options
- + Hot Swappable Modules



Controllers

- + Includes Battery Temperature Compensation Charging
- + Battery Performance Diagnostics
- + Provides Local and Remote Communications
- + User Definable Alarms
- + Daily Logging Of Power System Events And System Statistics



19" Integrated Shelf With Controller & Distribution Integrated

- + Charger Systems With Controller And Distribution Integrated 12 V 24 V 48 V 110 V 220 V Output Options
- + Hot Swappable Modules
- + 120Vac-208-240Vac Universal Input
- + Fully Controllable System. (Web Interface)



Diodes

- + DIN Rail & Wall Mount
- + 12 V 24 V 48 V
- + Alarms

Battery Monitoring Systems



Alarm & Comms Cards



Distribution Panels



AC UPS



Options

- + From 300 VA up to 6.4 MVA.
- + Applications From Home Offices To Large Industrial Plants.
- + Transformer-less And Transformer Based Options.
- + Rugged Outdoor Solutions.
- + Modular And Scaleable Solutions
- + Internal Or External Battery Banks.
- + Parallelability And Redundancy Of Power
- + UPS Also Available With Supercaps Instead Of Batteries
- + Battery Swap. The Batteries Can Be Replaced During Operation
- + Compatible With Various Remote Control Communication Protocols And Can Be Customised To The Specific Requirements Of Any System.

Power Quality



Power Quality Disturbances Covered By Our Range Of Products

- + Overvoltages Or Spikes
- + Swells & Voltage Sags
- + Short and Long Interruptions
- + Flicker Effect & Harmonic Distortion

Products

- + Dynamic Voltage Restorer for industrial applications
- + Voltage Stabilisers
- + Active Harmonic Filters
- + Voltage Optimisers

Power Factor Correction

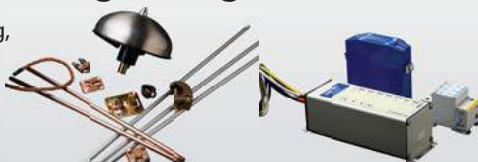


Power Factor Correction

- + Automatic Power Factor Correction Systems
- + Power Factor Controller
- + Real-Time Automatic Power Factor Correction
- + Three-phase Capacitors.

Lightning & Surge Protection

Grounding, Bonding, Surge & Lightning Protection



Low Voltage Power And Grounding Connections



Our Services

Every manager's intention is to optimise the operation and it's equipment as much as possible without costly breakdowns. We help you to keep the performance of your new investments as effectively as possible. Helios Power Solutions is a strategic partner to its customers, offering expertise in operation, maintenance and repair.

Single-Source Provider of Customised Systems

Our design and production departments are complemented by an excellent and comprehensive portfolio of products and services. This allows us to offer our customers cost-effective solutions as well as meeting even the most stringent specifications.



Repair

The Helios service department carries the responsibility of evaluating, servicing and repairing all of the products we manufacture as well as the imported products and locally sourced products we supply. This service is carried out adhering to our stringent policies and procedures.

Maintenance

Regular inspection and preventative maintenance of your power systems is essential for reliable service. We specialise in the maintenance of active electronic equipment, such as uninterruptible power supplies, battery chargers, VRLA battery banks, power factor correction units and active harmonic filters. We're also experts in the inspection and maintenance of passive lightning protection and earthing systems.

Capabilities

- + Technical consultation with client from qualified electronic engineers to ascertain what is required
- + Design – from PCB level to integrated systems from our power electronics design engineers
- + Draughting of detailed schematics
- + Manufacture, assembly and testing in NZ and Australia
- + Comprehensive range of high-quality products
- + Excellent lead-times
- + One off solutions

AC UPS Rental

Renting a UPS system from Helios is an ideal way to protect your investment from the risks of technological obsolescence and the cost of ownership.

Lightning Protection

We offer not only the in-depth experience of the Helios team dating back over 25 years but also the worldwide resources of nVent ERICO to provide support for lightning protection solutions ranging from ensuring that products are applied correctly through to a complete design service. This service includes a proprietary software operated by Helios and a strong understanding of a variety of lightning protection standards and systems. Having these resources ensures that our clients have the right lightning protection solution every time.

Onsite Installation & Commissioning

Our certified engineers are able to install and service power conversion equipment at your site. We do the commissioning of AC UPS, Power Factor Correction and Battery Charger Systems across New Zealand.

Advanced Testing

Helios engineers use an extensive range of the latest electrical instruments and testing equipment when assessing sites prior to system design, as well as during maintenance and problem identification. This equipment includes: thermal imaging cameras, high precision multifunction meters, power quality testers, battery voltage and impedance testers.

Combined Strength Helios Power Solutions Group

- + Sales and technical support in 6 cities:
Singapore - Auckland - Wellington
- Christchurch - Sydney - Brisbane
- + Two manufacturing/stocking and service centres
- + More than 10,000 customers
- + Helios Power Solutions products and expertise has been spread globally in more than 40 countries
- + ISO 9001 accredited facilities
- + Designer - Manufacturer - Integrator - Distributor



Maintaining Continuous Operation Of Key Assets for Critical Market Sectors:

- + Power Utilities - Modular & Scalable Applications
- + Data Centres - IT
- + Defence - Marine
- + Outdoor Applications
- + Railway
- + Heavy Industrial Applications
- + Mining
- + Oil & Gas
- + Security Access



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