

Energy Storage

THE SOLUTIONS TO POWER YOUR PROJECT

THE LITTLE THINGS MATTER

We're Essentra, worldwide manufacturers and distributors of small, but vital components for multiple industries. We're proud of what we do and believe that even the smallest solutions have a big part to play in the energy storage industry.

We work with the top 15 global tier-one automotive suppliers, providing the highest standards of service and quality. We work with over 70% of the world's top 100 global manufacturers including the top 15 global tier-one automotive suppliers, providing the highest standards of service and quality.

We are a FTSE 250 company. While our reach is global with 12 manufacturing facilities, we have a local understanding. For you, that means our manufacturing capabilities, experience, customer focus, and global infrastructure allows us to leverage our extensive network to deliver bespoke solutions. We're able to bring together the best products, ideas and distribution for the energy storage sector.

"FROM CONCEPT TO PRODUCTION, ESSENTRA WAS ABLE TO SMOOTHLY MANAGE ALL PROJECT REQUIREMENTS TO COME UP WITH THE PERFECT SOLUTION."

"ESSENTRA WAS SO EASY TO DEAL WITH, PROVIDING SAMPLES AND 3D PROTOTYPES THROUGHOUT THE PROJECT."

Bob Siegwald,
Burgafflex Executive Vice President

WE WORK WITH OVER
70%
OF THE WORLD'S TOP 100 GLOBAL MANUFACTURERS

WE WORK TO HIGHEST INDUSTRY STANDARDS, WITH
ISO & IATF ACCREDITATION



EUROPE



GLOBAL REACH WITH A LOCAL TOUCH

Whether you have a global or local project, with over 65 years' experience, and worldwide coverage, we are here to help you.

AMERICAS



WHO IS ESSENTRA COMPONENTS?

We combine the expertise of a manufacturer with the range and service of a distributor. We act as the single-source supplier of c-class components to over 70 of the top 100 global manufacturers.

ASIA PACIFIC



12

manufacturing facilities

65+

years heritage

>1

BILLION parts in stock

33

Distribution Centres

45k+

products available

ARE YOU PREPARED FOR WHAT'S COMING?

Energy storage installations around the world will multiply exponentially, according to the latest forecast from BloombergNEF. The boom of stationary energy storage, driven by cheaper batteries over the next two decades and increasing applications, will require \$662 billion of investment.

That's where we can help, no matter what stage your product is at, whether you're refining your design or prototyping. Our expert advice, extensive range, consistent quality and custom solutions can make all the difference.

ACCESS SOLUTIONS

If you need a high-performance, ergonomic product, we can help with solutions sensitive to their environment and user needs while complying with international regulations.

SECURE QUARTER TURN LOCKS

- High security
- Ease of use – key acts as a knob
- Corrosion resistant chrome-finish die-cast zinc alloy
- Stainless-steel versions available

BUBBLE GASKETS & EDGE PROTECTORS

- Easy to apply
- Versatile applications
- Choice of EPDM or PVC material

T HANDLE HEAVY DUTY LOCK - IP65 STAINLESS STEEL

- IP65, Stainless Steel
- Suitable for special equipment cases
- Adjustable cam provides different grip range

EMI GASKET

- Reduce radiated emissions within complex electronic equipment
- High noise-reducing characteristics
- Easy application with adhesive base

SWING HANDLES

- Higher-strength security
- Corrosion-resistant stainless-steel keyhole cover
- Adjustable with high-security cylinder lock
- Add your logo or design with custom printing
- Keyed alike or different

T HANDLE HEAVY DUTY LOCK

- Especially designed for medium voltage panels
- Foam gasketing provides sealing
- Maximum padlock shackle diameter 9 mm
- Customisable cam and colours

CONCEALED HINGES

- Anti-corrosion stainless steel
- Aesthetic appeal – hinge is not visible from outside

AUTOMATION & CONTROL

The safe operation of indoor and outdoor high voltage electrical equipment is increased with our range of IP50 and IP65 control units.

PILOT LIGHTS

- Ensure the operator is clearly informed of the status of the charging station
- Protective cable inlet tips enable maximum safety
- IP50 & IP65 versions, AC & DC, multiple colours
- UL & VDE certified

CONTROL UNITS

- Available for most common functions: start, stop, start-stop, emergency stop
- IP50 and IP65 versions
- UL & VDE certified

CABLE ENTRY

Weather-proof solutions with guaranteed ingress protection – just what you need to protect cables and prevent costly repairs.

CABLE GLANDS

- Secure cables to your equipment
- Nylon, brass and stainless-steel versions
- Wide-operating temperatures
- Flammability and explosion rated
- IP68 options when used with our accessories

GROMMETS

- Easy-to-install protection from sharp edges of unfinished sheet metal
- Provides a dust and watertight seal
- Suits external applications
- Withstands vibrations

CABLE ENTRY SYSTEM

- Convenient tool-free entry and connecting technology
- Order plate and accompanying grommet
- Stands up to extreme temperatures: -30°C to 100°C
- Tough, strong polyamide material with IP65 rating

PROTECTION

Ensure smooth assembly and transit by protecting critical profiles from damage. You can also get a professional finish by masking holes and contact points with easy-to-fit caps and plugs.

NUT PROTECTION CAP

- Excellent nuts and bolts protection for outdoor applications
- Resistant to most chemicals

RAPID CABLE WRAP

- Easy fitting with flexible PVC
- Versatile applications

EXPANDABLE SLEEVE

- Flame resistant for high-temperature cable applications
- Lightweight, chemical resistant, low wear and moisture stability

HARNESS WRAP

- Polyethylene for high ductility and impact strength
- Allows cables to branch out at any point and in any direction

VIBRATION MOUNTS

- Used for any application that requires the isolation of vibration
- Can be used in compression, shear or both – where there are no requirements for fail safe functionality
- Multiple options available

LIQUID TIGHT PLUGS

- Protects from dust and withstands water immersion (IP67)
- Silicone rubber. UL94 V-0

CABLE MANAGEMENT

Manage, organise and protect complex cabling with easy-to-install solutions suited to a range of demanding and varied environments.

CABLE TIE HOLDERS

- Saves space while easily coping with high temperatures
- Push fit saves installation time with a range of mounting options
- Eliminates the need for separate cable holders
- Accommodates bundles before or after mounting



HEAT STABILIZED CABLE TIES

- Keeps cables orderly and easily accessible
- Flame retardant, cost effective and strong

TUBULAR RING TERMINALS

- Ideal for multi-stranded cables
- Highly conductive copper and tin plated for corrosion resistance
- Tubular terminals with flat surface end enables easy and precise contact



INSULATED RING TERMINALS

- Easy entry
- Copper – tin plated – polyamide sleeve
- DIN 46237 – refers only to the tubular part of the terminal

SLOTTED WIRE DUCT

- Perfect for general purpose control panel wiring to route and protect wires
- Holds breakout wires while providing flexibility for adding or removing wires
- Lid supplied with base
- Easy break-off with scored fingers



INSULATED CORD END TERMINALS

- Improves connection and circuit continuity
- Used to strengthen fine wires when terminating cables into connectors or terminals
- Provides neat and clean finish for connections
- Copper – tin plated – polyamide sleeve
- DIN 46228/4 standard
- German and French standard ranges available upon request

FASTENERS

Ensure the quality and life of your product with fasteners in the sizes and tolerances you need, designed to work for just about every application.

WING NUTS

- Thumb tabs that provide extra grip for ease of turning and securing into position
- Where frequent hand tightening and untightening of joints is required



SLOTTED CHEESE HEAD SCREWS

- Durable natural nylon
- Standard ISO 1207 and NF E 25 purposes only

WASHERS

- Insulates against moisture and electricity
- Resists corrosion and abrasion
- Provides full insulation, cushioning and spacing
- Durable natural nylon



HEX NUTS

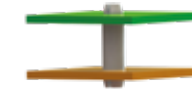
- Wide range
- Black, natural or transparent
- Natural Nylon 6.6, Polypropylene or PVDF DIN Standard

PCB HARDWARE

Our vast range is all about choice, whether it's a hex standoff for high-critical strength or PCB support with various locking methods.

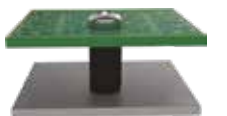
MINI SUPPORT POST

- Securely anchors PCBs
- Nylon 6/6 for strength, ductility, and heat resistance



HEX THREADED STANDOFF

- Secure circuit boards with high-torque locking and grounding features
- Extra strength and stiffness with 25% glass-filled nylon
- Black colour with Male and Female options



CIRCUIT BOARD SUPPORT POSTS

- Fits into the circuit board to provide greater stability
- Easy fixing with various snap-in-fit options
- Available in two durable materials, nylon 6/6 or natural nylon



HEX SPACERS

- Robust and secure with convenient screw-in design
- Male, Female and Undercut versions
- Available in three corrosion-resistant materials:
 - Nickel-plated brass
 - Zinc-plated steel
 - Stainless steel



LOW VOLTAGE INSULATORS

- Durable natural nylon with brass insert
- Suitable for voltage breakdown >11,000 volts/mm
- Withstands harsh temperatures, from -40°C to +105°C
- Male, Female and Micro versions

FAN HARDWARE

Our fan sets, assemblies and accessories give you protection and mounting for small DC and AC fans suitable for thermal management of electronic equipment.

FAN FILTER SETS

- Provides IP30 protection
- Includes finger guard, filter cover, mesh filter and felt filter



FAN GASKET

- Black silicone rubber for a simpler and faster installation method than conventional screw mounts



FAN GUARDS

- Prevents debris falling into fan blades and accidental obstruction
- Steel-wire electroplated for corrosion protection and lubricity
- Nickel-chrome finish



BREAK-AWAY FAN MOUNT

- High-elongation rubber for easy fan mounting and shock and vibration protection
- Ideal for cooling electronic applications
- Protects against dust ingress and accidental damage



DON'T SEE WHAT YOU NEED HERE?

Ask us about different sizes, shapes, materials and finishes. Our Custom Solutions team will work to your specification. Find out more and contact us at essentracomponents.com/energy-storage

WHY ESSENTRA?

**FREE
SAMPLES**

CAD

**LOCAL
STOCK**

**FAST
DESPATCH**

**LOCAL
TEAM**

**OVER
45,000
PRODUCTS
AVAILABLE**

**ISO & IATF
ACCREDITED**

LET'S TALK

For more information and to contact your nearest Essentra office please visit essentracomponents.com/energy-storage or email energystorage@essentracomponents.com