

Power of Expertise

Authorised Franchisee :



BK POWER

HT & LT Switch Board Manufacturers

**The in-demand
Solution for Power
Distribution**



ENERSYS

About L&T Electrical & Automation

L&T Electrical & Automation (E&A) is a market leader for electrical distribution, monitoring and control solutions in the low voltage category.

Popular among customers as L&T Switchgear, E&A offers a wide range of **low and medium voltage switchgear, motor starters, electrical systems, industrial automation, building electrical solutions, energy management solutions, electrical modernization solutions and metering solutions**. Its products and solutions cater to key sectors of economy like **industries, utilities, infrastructure, building and agriculture**.

E&A's manufacturing operations at Navi Mumbai, Ahmednagar, Vadodara, Coimbatore and Mysuru in India adhere to global practices of excellence and receive support from well-equipped in-house design and development centres as well as tooling facilities that contribute to precision in manufacturing.

About BK POWER

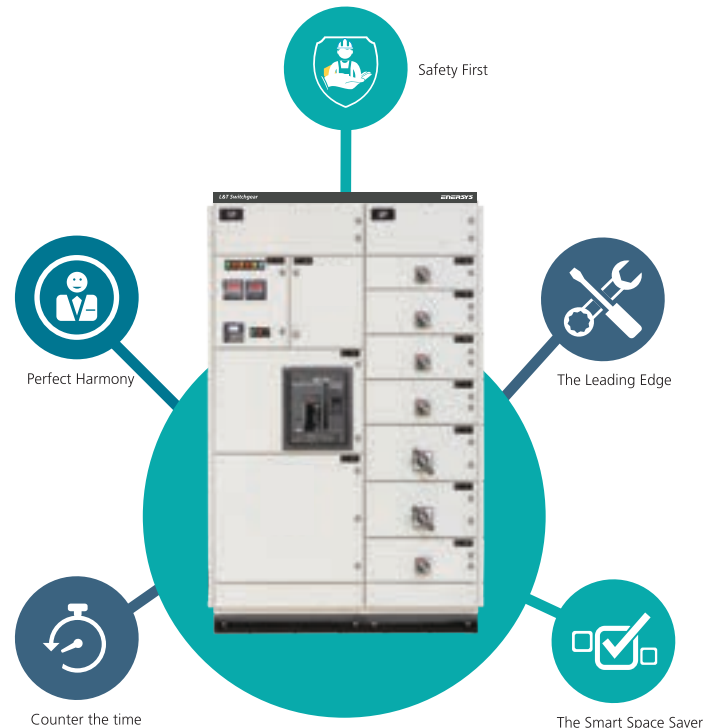
We introduce ourselves as a group of well experienced technocrats who are completely dedicated to customer satisfaction by providing Best Technical Support, Products and Services. We provide complete **"DESIGN & ENGINEERING", "MANUFACTURING", "ERECTION & COMMISSIONING"**.

We provide best engineered solutions for electrical power distribution and control.

We are 30 years experienced in the field of HT and LT switch gears with state of art manufacturing plant at Coimbatore. We have Latest CNC machines for punching, forming, fabrication, Busbar bending, drilling, welding, Assembly & Testing facilities etc.

ENERSYS
**FULLY TYPE TESTED PANEL
IN ACCORDANCE WITH IEC-61439**

EXCELLENCE IN DESIGN



BK POWER has entered into a startergic tie up with L&T electrical & Automation to **manufacture and supply TTA panels in compliance with IEC 61439**. Enersys range of switchboards are backed by many years of knowledge, switchgear experience in addition to feedback from consulting engineers, electrical contractors and end users.

Safety First

Noble guardian

Energys range is divided into distinct compartments (equipment, busbar, cable and auxiliary segregated by metallic or non-metallic partitions or barriers, to ensure **maximum safety level for your operator** against electric shock.



Multi level safety

The specially designed tool operated and pad lockable door knob provides **multi level safety for your personnel**.

Additionally, you are protected from accidental access to live parts by our intelligent interlocks.



Trusted bus system

Generous clearances for main busbars and connectors ensure unmatched safety for you. Supports and insulation materials are **flame resistant, track resistant and non-hygroscopic** exhibiting outstanding electrical properties.



Environmental control

Energys range gives you **protection against access to hazardous parts, solid foreign bodies and liquids**. The innovative design of carlock, hinges and door gasket bolster ingress protection.



Integral safety - arc protection

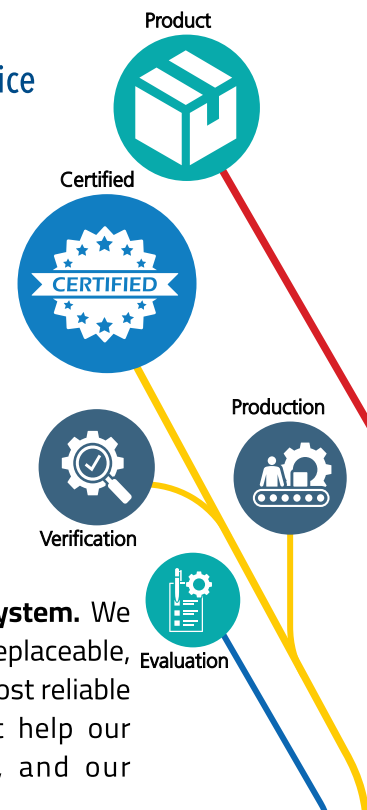
The complete closed door operation and limitation of fault within a confined area, **Energys** range ensures **total safety for the operator** and maintenance personnel as well as **plant safety** in order to limit the damage.

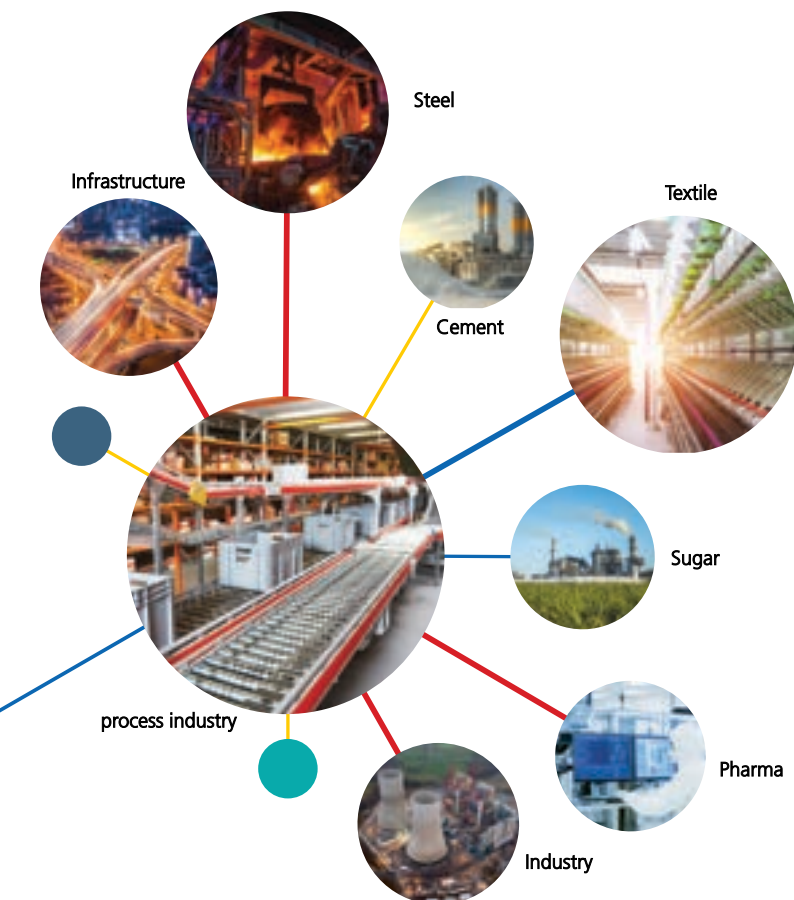


Quality Management Service

Quality

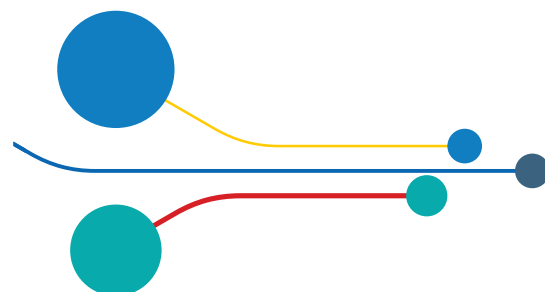
We infuse excellence into the manufacture of every product, and into the implementation of every process - beginning with our raw materials. Our commitment to quality translates into CAD workstations at the design stage, **quality audits by independent groups and a stringent vendor approval system**. We understand that quality is irreplaceable, and that is why we use the most reliable and trusted processes that help our systems become leaner, and our services more efficient.





Applications

Innovation and Technology leader E&A provides a comprehensive range of solutions to exceed your present and future requirements. Our new range of distribution board is more **reliable and safe**; assuring you, an absolute uninterrupted power supply for your infrastructure. **Energys range of distribution boards are perfect match for your Infrastructure, Steel, Cement, Textile, Sugar, Pharma and Process Industries.**



The Perfect Match for Your Energys range of System

E&A is India's leading switchgear company and offers the widest range of electrical standard products, **compliant with Indian and global standards**. Our in house design and testing facilities enable us to create customised solutions which combine type-tested **Energys range of switchboards with a wide range of perfectly matched E&A switchgear configurations**. All, so that you can achieve the highest levels of cost and design optimisation possible with your **Energys** system.

Air Circuit Breakers

- **400 A to 6300 A** in three optimized frame sizes
- Short circuit breaking capacities upto **100 kA**
- 50/100/200% Neutrals available
- Common Height and Depth across range
- Tool-less fixing of voltmeteric releases
- Independent locking of ON/OFF buttons
- No derating at higher ambients
- Display of complete accessory information on front facia
- Energy saving pole design
- Arc chute interlocking



Moulded Case Circuit Breakers

- **20 A to 1250 A** in 3/4 pole variants
- Positive isolation
- Short Circuit breaking capacities upto **70 kA**
- Microprocessor, Thermal Magnetic and Magnetic based Releases
- Wide range of snap accessories
- User friendly features
- Ergonomic design



A Global Validation

IEC 61439

Our Enersys range of Low voltage switchgear system is subjected to extensive design verifications in compliance with IEC 61439, at reputed international third-party laboratories (ASTA) to assure you best-in-class products.



Constructional Characteristics	Enersys Range
Strength of material and parts	✓
Degree of protection of enclosures	✓
Clearances	✓
Creepage distances	✓
Protection against electric shock and integrity of protective circuits	✓
Incorporation of switching devices and components	✓
Internal electrical circuits and connections	✓
Terminals for external conductors	✓

Performance Characteristics	Enersys Range
Di-electric properties	✓
Verification of temperature rise	✓
Short circuit withstand strength	✓
Electromagnetic compatibility	✓
Mechanical operations	✓

Enersys range of switchboards are backed by many years of knowledge, switchgear experience in addition to feedback from consulting engineers, electrical contractors and end users.

With **Enersys** range of switchboards, we assure you **cutting edge performance, superior safety, greater reliability, effective use of your capital & space, and high class protection for your power distribution systems.**

The **design verified assembly** together with increased versatility makes it competent to accomplish today's challenging demands and move towards fulfilling future expectations.

Enersys range is **fully compartmentalised** and duly complied with the latest international standards and local regulations, elevating your power distribution to a new level.

Winner of Deming Prize 2019



The Deming Prize is one of the highest awards on Total Quality Management (TQM) in the globe. It is presented to an organisation that has implemented TQM suitable for its management philosophy, scope/ type/ scale of business and management environment.



The Leading Edge

Reliable

Design
Verified

Flexible

Compact

Efficiency expert

Energys range is the intelligent **modular solution** to combine your different installation designs in one section with high efficiency. The **flexibility** thus achieved allows for the simple exchange or addition of functional units, giving an edge to your credence.

Design for tropicalisation

Energys range is well designed & engineered to perform satisfactorily in **harsh environments consisting of dust, water, or pollution, making it suitable for all geographical sites or any critical ambience.**



Unmistakable, Unmatched performance

Stringent fault withstand capacity of **Energys-M of 65 kA for 1s & Energys-i of 80 kA for 1s**, which assure you an exclusive and high-quality performance.

Technical sophistication

Energys range believes in future and sets new standards as a **technically superior** application in infrastructure. This means it is always designed to meet constantly increasing technical challenges offering **maximum personal and installation safety**, a wide range of possible uses, **quick installation, minimal maintenance, and timely delivery.**

Technical Specifications - Energys-i

Standards		IEC61439
Electricals characteristics		
Voltage ratings	Rated operational voltage (U_n)	415 VAC
	Rated insulation voltage (U_i)	690V / 1000V AC
	Rated impulse withstand voltage (U_{imp})	12kV for Busbar & ACB Feeder, 8kV for MCCB feeders
	Rated frequency (f_n)	50 Hz
Current ratings	Main Horizontal busbars	
	Busbar system	Aluminium
	Rated current (I_{nA})	Upto 3200A
	Rated peak withstand current (I_{pk})	176 kA
	Rated short-time withstand current (I_{sw})	Upto 80 kA, 1s
	Vertical Distribution busbars	
	Rated current (I_{nA})	Upto 1000A
	Rated peak withstand current (I_{pk})	176 kA
	Rated short-time withstand current (I_{sw})	Upto 80 kA, 1s
	Insulation characteristics	
	Clearance	Ph-Ph-25 mm Ph-E & Ph-N-19 mm
	Creepage distance	Ph-Ph-25 mm Ph-E & Ph-N-19 mm
	Overvoltage category	IV
	Pollution degree	3
	Field condition	Inhomogeneous (non-uniform)
Mechanical Characteristics		
Degree of protection	In accordance with IEC 60529	
	External	IP 43 & IP 54 - upto 3200A
	Internal	IP 2X
Forms of separation	as per IEC 61439-2	upto Form 4b
Dimensions	Height (mm)	2200 , 2300 (with plinth)
	Width (mm)	500, 600, 800, 1000 (ACB panel)
		600 (MCCB panel - Rear cable access) 600 (W) +300(VBC) + 300(CA) (MCCB panel side cable access) (if required)
	Depth (mm)	800, 1000, 1200
Surface Treatment	Structure	Powder Coating of 50 Microns
	Internal Components	Powder Coating of 50 Microns
	External Components	Powder Coating of 50 Microns
Resistance to Corrosion	Damp heat cycling test	IEC 60068-2-30
	Salt mist test	IEC 60068-2-11
Plastic components	Flame retardant, self-extinguishing, Halogen-free	IEC 60068-2-10, IEC 60695-2-11

Engineer **S.'BK' BALAKRISHNAN**

Founder of M/s. BK POWER

(Formerly BK Electro Methods India Pvt. Ltd., & BK Control Systems).

Practicing Electrical Engineering since 1987.

Electrical Engineer from CIT.

Trained under BEST & CROMPTON Team.

Our other Range of Products

Design Department: The design and engineering team at BK POWER is one of the most experienced and is able to meet the requirements of customers for custom-built Electrical Switchboards. Our team incorporates hands-on experience and first-class Management expertise.

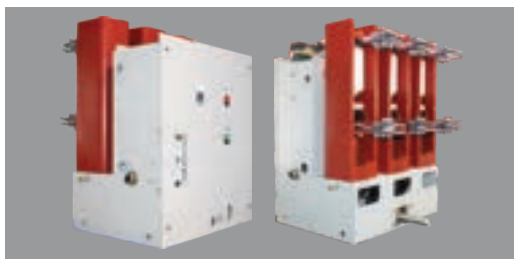
Manufacturing Department: We have a well-equipped unit to process up to 3mm CRCA / GP / Aluminum Sheet. We have advanced machineries to fabricate HT & LT Panels Enclosures which have POWER- Mx modular type design. (Complying with form of separation 4-B as per IEC-

POWER- Mx Modular LT Panels integrated with L&T / ABB / SIEMENS / SCHNEIDER / LEGRAND / SIEMENS / SOCOMEC devices to ensure reliability and proven design.

Authorised Distributor: **DBS Energy Inc.** (Our sister concern) - **OBO BETTERMANN INDIA Pvt LTD.** Complete Range of Products like LV Transient SPDs, Cable Trays and Lightning Protection and Earthing Systems.



Power - Fx Vacuum Circuit Breaker



Vacuum Circuit Breaker - Trolley



Load Break Switched- LBS



11/22/33 kV CT

11/22/33 kV PT

MV Indoor Current & Potential Transformers



Unitised Substation



RMG - Ring Main Gear



Front View

Rear View

Solar Power Plant LT Panels

The Policy - At BK we consider your Electrical Systems to be an Asset. Built to last a life time.

Our Range of Products :

- EB / Genset Changeover Panels
- Power cum Motor Control Centre
- Distribution Boards, Feeder pillars
- DG, AMF, SYN & PLC Panels
- Rising Mains and Bus Ducts
- Auto - PF Correction systems
- Active and Passive Harmonic filter panels
- Distribution Boards, Feeder pillars
- Rising Mains and Bus Duct
- Solar Power Plant LT Panels

Power- Mx Modular Type Design

Trouble-free installation, reduced construction times, and long-term dependability



Appreciation from Airforce Naval Housing Board



www.switchboards.uk / www.switchboardstore.com



Authorised Franchisee



An ISO 9001-2015 Certified Company

Mfrs.: **Power - Fx** VCB, RMG, LBS Panels | **Power - Mx** Modular LT Panels

Authorised Distributor: **OBO** Transient Surge Protection, Cable trays, Lightning Protection & Earthing Systems

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