

SPECIAL DESIGN DRY
TYPE TRANSFORMERS

LIQUID FILLED AND DRY
TYPE SUBSTATION
TRANSFORMERS

LIQUID FILLED AND DRY
TYPE DRIVES ISOLATION
TRANSFORMERS

600V CLASS GENERAL
PURPOSE TRANSFORMERS

LOW VOLTAGE CUSTOM
TRANSFORMERS



COMPANY PROFILE

MGM Transformers is a leading provider of custom-engineered transformer solutions for industries including data centers, renewable energy, electrification, and industrial applications. Following the 1982 acquisition of Sierra Transformer Company, MGM Transformers introduced liquid-filled units and by 1990 it had established itself as the largest independent transformer manufacturer west of the Mississippi. Today, the company operates a 120,000-square-foot manufacturing plant in Los Angeles and maintains warehouses nationwide for rapid delivery and reduced downtime.

MGM Transformers specializes in dry and liquid-filled transformers, custom designed for advanced applications such as renewable energy projects, battery energy storage systems (BESS), and critical power systems for data centers. The Bull Rush Program delivers transformers in as little as five working days to address urgent customer needs. With over 50 engineers and technical staff, MGM Transformers delivers reliable solutions tailored to evolving market demands, including drives isolation transformers for SCR/VFD applications.

Key milestones include the 1991 launch of a satellite manufacturing plant for general-purpose transformers, the 2024 celebration of our 50th anniversary, and the acquisition of VanTran Transformers, expanding our portfolio with pad-mounted and specialty transformers.

MGM Transformers' ISO-certified facilities and rigorous quality assurance ensure top-tier performance. As a U.S.-based manufacturer, MGM Transformers help reduce supply chain disruptions and expedite projects. With a focus on innovation, sustainability, and customer satisfaction, MGM Transformers is committed to powering the future of electrification and renewable energy for decades to come.

MGM Transformers Manufactures Transformers In Six Major Categories:

Special Design Dry Type Transformers:

9 kVA to 10,000 kVA
Single Phase & Three Phase
600V to 34.5 kV
K-Factor Ratings
Retrofit Applications
Zig-Zag Grounding

Dry Type Substation Transformers:

75kVA to 10MVA
5kV to 34.5kV
Indoor and Outdoor
Primary Load Interrupter Switch (optional)

Liquid Filled Substation Transformers:

500 kVA to 10,000 kVA
5kV to 34.5kV
Indoor and Outdoor
Primary Load Interrupter Switch (optional)

Dry Type Drives Isolation Transformers:

6, 12, 18, 24, 30 and 36-Pulse
15 kVA to 10MVA
600V to 34.5 kV
Indoor and Outdoor

Liquid Filled Drives Isolation Transformers:

6, 12, 18, 24, 30 and 36-Pulse
200 kVA to 10MVA
5kV to 34.5kV
Indoor and Outdoor

600V Class General Purpose Transformers:

9kVA to 1,500kVA, 3-Phase
10 kVA to 500 kVA, 1-Phase

Special Design Dry Type Transformers

RANGE

3 - PHASE	9kVA - 10MVA,	2.4kV/5kV
	30kVA - 10MVA,	15kV
	500kVA - 10MVA,	34.5kV
	9kVA - 2,500kVA,	600V
1 - PHASE	10kVA-1,667kVA,	2.4kV/5kV
	15kVA-3,333kVA,	15kV/34.5kV
	10kVA-500kVA,	600V

DESIGN SPECIFICATIONS

- Aluminum/Copper
- 150°C / 115°C / 80°C or Special Request
- 220°C insulation
- NEMA standard/special sound levels
- ANSI standard/special BIL levels
- Dip/Bake or VPI (upon request)
- UL K-factor ratings
- UL / CUL / CE / CSA listings (check with factory)
- Multi-voltage input/output
- 50/60/400 Hz
- OEM core and coil
- Multiple electrostatic shields
- Design to meet customer impedance and loss criteria
- Ultra Efficient Designs
- Zig-Zag Grounding



LAYER WOUND

The rectangular layer wound style is the most common method in the industry for 600V and 5kV applications. MGMT standard is the superior oval layer wound method for 600V class and 5kV class, 45kV BIL maximum.

SECTION WOUND

The section-wound style is less common in the industry but is ideal for specific applications requiring its unique capabilities, particularly for ratings up to 125 kV BIL.



DISK WOUND

Due to its superior design criteria, I MGMT uses this method on most 15kV class to 125kV BIL.

MGM Transformers has established itself as a leading custom manufacturer of dry-type transformers. With an exceptionally large and experienced engineering team, MGM Transformers is uniquely positioned to design solutions tailored to the diverse criteria of different industries while maintaining short lead times. This capability has solidified the company's reputation as an industry leader.

MGM Transformers specializes in core and coil applications for regulators and UPS systems, low-loss/high-efficiency drives isolation transformers, and K-factor-rated substation transformers for retrofits, among many other custom designs. For its Special Design Dry Type transformers, MGMT employs three distinct winding styles based on kVA, voltage, and BIL requirements. This flexibility ensures the highest mechanical strength under short-circuit stress conditions and suitability for various voltage classes.

MGM Transformers designs and engineers transformers both electrically and mechanically to meet the custom needs of each unique application.



DRY TYPE SUBSTATION 1800 KVA

- Primary 6.3KV
- Secondary 400Y/231V
- 50Hz
- 150°C Rise
- Copper Wound
- Digital Temperature Monitor
- NEMA 3R Louvers
- Low Voltage Transition Section with Flex Leads

RANGE

3 - PHASE

500kVA - 10MVA, 2.4/5kV
 500kVA - 10MVA, 15kV
 500kVA - 10MVA, 34.5kV

DESIGN SPECIFICATIONS

- Aluminum/Copper
- 150°C / 115°C / 80°C
- 220°C insulation
- ANSI standard/special BIL levels
- Indoor/outdoor
- Dip/bake or VPI (upon request)
- UL K-factor ratings
- UL / CUL / CE / CSA listings (check with factory)
- *DOE 2016 Compliant

For over five decades, MGM Transformers has been a reliable source for quality unit substation transformers. Our standard designs cover the full range of requirements from 600V to 34.5kV, 500kVA to 10,000kVA, in both liquid and dry type.

As an engineering oriented transformer company, we maintain a large engineering staff. Our experience in working with various switchgear manufacturers enables us to design the high voltage/low voltage switchgear interface, assuring the proper match in the field. Flex connectors can be supplied.

Non-standard substation designs are also available for special situations such as failed unit retrofitting or PCB replacement.

All manufacturing processes are done on the premises. This advantage, along with a large inventory of electrical steel and wire, assures our customers of the industry's shortest lead times, regardless of the interface requirements.

LIQUID FILLED SUBSTATION 7.5MVA



- Primary 22.9KV
- Secondary 7,200Y/4,160V
- 60Hz
- 65°C Rise
- Aluminum Wound
- Mineral Oil
- HV/LV Throats

RANGE

3 - PHASE	500kVA - 10MVA, 2.4/5kV
	500kVA - 10MVA, 15kV
	500kVA - 10MVA, 34.5kV

DESIGN SPECIFICATIONS

- Aluminum/Copper
- 55°C, 65°C and 55°C / 65°C
- OA, OA/FFA, OA/FA
- ANSI standard/special BIL levels
- Indoor/outdoor
- Silicone/FR3/Mineral Oil
- Designed Per ANSI and NEMA
- *3,750kVA and above have a minimum low voltage of 2400 Volts

MGM Transformers has built a reputation for providing rugged, conservatively designed substation transformers tailored to meet the most demanding applications. Our experienced manufacturing team, combined with a rigorous QA/QC system, ensures every transformer delivers exceptional quality and performance. With an extensive on-site inventory of raw materials, MGMT consistently achieves some of the industry's shortest lead times without compromising reliability.

For customers requiring added functionality, MGM Transformers maintains an inventory of fused and non-fused 600A 15kV load interrupter switches. These switches can be seamlessly integrated with our transformers and shipped within the same short lead times as transformers without switches.

When standard designs don't meet specific project requirements, MGMT's custom engineering capabilities come into play. Our team of expert engineers works closely with customers to design transformers that address unique specifications, from electrical and mechanical configurations to specialized applications. This flexibility ensures that every transformer performs optimally in its intended environment, providing a complete, high-performance solution that meets or exceeds customer expectations.

Drives Isolation Transformers Dry Type



DRIVES ISOLATION TRANSFORMER 750kVA 12-Pulse

- Primary 3.3KV
- Secondary 1,700/1,700V
- 50Hz
- 125°C Rise
- Copper Wound
- Electro-Static Shield
- Thermostiches in Coils

RANGE

3 - PHASE

15kVA - 1,500kVA, 600V
15kVA - 10MVA, 5kV to 34.5kV

DESIGN SPECIFICATIONS

- Aluminum/Copper
- 150°C / 115°C / 80°C / Special design rise
- 220°C insulation
- ANSI C57 and IEEE (applicable section(s))
- Indoor/outdoor
- 6, 12, 18, 24, 30 and 36 Pulse Applications
- Electro-static Shield
- Thermal Switches

MGM Transformers is a trusted supplier of reliable, high-quality drives isolation transformers, earning the respect of leading drives manufacturers worldwide. Each transformer is custom-designed to meet the customer's precise specifications, adhering to the latest ANSI standards for harmonic loads. MGM Transformers never uses derated standard distribution transformer designs, ensuring optimal performance and longevity for every unit.

As a design-and-build transformer company, MGM Transformers takes pride in its large and highly experienced engineering team. With decades of expertise in the drives industry, our engineers have successfully developed solutions for a wide range of applications, from pumps and fans to heavy-duty steel rolling mills operating under demanding duty cycles.

MGM Transformers manufactures both liquid-filled and dry-type drives isolation transformers, with ratings ranging from 15 kVA to 10 MVA. This versatility allows us to provide tailored solutions that best fit the unique requirements of each application. By combining innovative design, rigorous quality standards, and extensive industry knowledge, the company delivers transformers that perform reliably and efficiently, offering customers the confidence and performance they need for their critical operations.

LIQUID DRIVES ISOLATION TRANSFORMERS 1,000KVA 12-PULSE

- Primary 4.3kV
- Secondary 2,100/2,100V
- 65°C Rise
- Copper Wound
- Mineral Oil
- Electro-static Shield



RANGE

3 - PHASE

200kVA - 10MVA, 5kV to 34.5kV

DESIGN SPECIFICATIONS

- Aluminum/Copper
- 55°C, 65°C and 55°C / 65°C
- OA, OA/FFA, OA/FA
- ANSI C57, IEEE (applicable sections(s))
- Indoor (FR-3/Silicone)
- Outdoor (Mineral Oil)
- 6, 12, 18, 24, 30 and 36 Pulse Applications
- Electro-static Shield

MGM Transformers delivers reliable solutions for demanding drives applications through advanced engineering and specialized manufacturing processes. Our team of experienced engineers designs transformers to handle worst-case scenarios, ensuring robust performance and long operational life, even under the most challenging conditions.

Our manufacturing process employs precision winding techniques, advanced equipment, and meticulous assembly methods to maintain both electrical and mechanical integrity under stress. These rigorous processes result in transformers that consistently meet the highest standards of reliability and durability.

Collaborating closely with drives manufacturers, MGM Transformers designs transformers tailored to meet exact equipment requirements. Once specifications are established, we provide a matrix of optimized designs and pricing, simplifying the ordering process and ensuring customer satisfaction.

With a product range of up to 10 MVA in both liquid-filled and dry-type transformers, MGM Transformers is a leader in drives isolation transformer manufacturing. Our expertise, innovative engineering, and commitment to quality make us the trusted choice for high-performance transformer solutions.



600V CLASS GENERAL PURPOSE

- 150°C Rise
- Aluminum and Copper Wound

RANGE

3 - PHASE	9kVA - 1,000kVA, 480D - 208Y/120V
	9kVA - 1000MVA, 480D - 240D/120V
1 - PHASE	10kVA - 500kVA, 240x480 - 120/240V

DESIGN SPECIFICATIONS

- Aluminum & Copper
- 150°C / 115°C / 80°C Rise
- 220°C UL insulation
- NEMA 1/NEMA 3R (with kit)
- UL Listed
- 6 Primary Taps:
 - 2-2¹/₂% FCAN
 - 4-2¹/₂% FCBN

MGM Transformers has established a national distribution network with partners strategically located in major cities across the continental United States. This network provides immediate access to stocked transformers at a competitive price, solidifying MGM Transformers as a trusted and reliable leader in the transformer industry. Beyond the standard inventory available at each warehouse, our distribution network is equipped to supply by special order, virtually any 600V class transformer. Whether it's for unique applications or specialized specifications, our engineering team works closely with customers to ensure their custom solution is delivered with the same efficiency and reliability as standard products.

For a closer look at the custom-engineered solutions available, please refer to the "Special Design Dry Type Transformers" page, which showcases the broad range of capabilities MGM Transformers offers to meet evolving customer demands. With a commitment to quality and customization, MGM Transformers' distribution network delivers unmatched value!

Oil Filled Padmount Compartmental Transformers

OIL FILLED PADMOUNT COMPARTMENTAL



STANDARD FEATURES:

- Liquid Level Gauge
- Top Oil Temperature Gauge
- Fill Plug
- Schrader Valve for Nitrogen Blanket
- Automatic Pressure Relief Valve
- Externally Operated De-Energized Tap Changer
- Drain Valve with Sampler
- Tank Grounding Pads
- Jacking provision
- Base designed for rolling
- Undercoating of tank bottom to prevent corrosion
- Diagrammatic corrosion resistant nameplate

AVAILABLE OPTIONS:

- Dead Front or Live Front Primary
- Radial or Loop Feed Primary
- Primary Fusing
- Primary Molded Vacuum Interrupters
- Secondary Breakers
- Loadbreak Switches
- 304L & 316L Stainless Steel tank, cabinets, & hardware
- Mineral Oil or Natural Ester Fluids
- Externally mounted devices in pad-lockable box
- Seismic Withstand
- Special Paint Colors

MGM Transformers Oil Filled Padmount Compartmental Transformers offer unparalleled reliability and performance, ensuring seamless energy distribution even in the most demanding environments. With sizes and voltages ranging up to 10 MVA to 46kV primary voltages, the padmount design features high security, three-point latching, pad-lockable double door compartments with full length steel center partitions and security bolts. This ensures tamper-proof construction for use in public and unsecured areas for stepping down voltages from the electrical grid or up into the grid for data center, renewable and battery energy storage systems (BESS).

All padmount transformers from MGMT feature sealed tank construction with welded-on covers and conform to IEEE/ANSI C57.12 standards, where applicable, offering a full range of both dead front and live front components to fit your needs.

The US Department of Energy (DOE) has regulated the energy efficiency level of low-voltage (LV) dry-type distribution transformers in the United States since 2007, and liquid-immersed and medium-voltage (MV) dry-type distribution transformers since 2010.

The US Department of Energy has mandated new higher efficiency levels for Low and Medium Voltage distribution transformers effective January 1st 2016.

DOE's CFR (Code of Federal Regulation) title 10, part 431 defines the current energy efficiency standards for distribution transformers sold in the US also known as TP1 energy efficiency levels as adopted by NEMA. Effective Jan 1, 2016, DOE's CFR 10 p.431 will require new higher levels of Energy Efficiency for transformers installed in any US territory as published in the Federal Register Vol. 78, No. 75 on April 18, 2013.

Any Distribution transformer manufactured on or after Jan 1, 2016, and sold in any US state will have to comply with the new energy efficiency levels defined by this document.

According to DOE, the new energy efficiency levels will reduce energy losses by an average of 18% in low voltage dry-type distribution transformers and by 13% in medium voltage dry-type transformers.



SINGLE - PHASE EFFICIENCY	
Rated Capacity (kVA)	Minimum Efficiency (%)
15	97.7
25	98.0
37.5	98.2
50	98.3
75	98.5
100	98.6
167	98.7
250	98.8
333	98.9

THREE - PHASE EFFICIENCY	
Rated Capacity (kVA)	Minimum Efficiency (%)
15	97.89
30	98.23
45	98.40
75	98.60
112.5	98.74
150	98.83
225	98.94
300	99.02
500	99.14
750	99.23
1000	99.28

The resulting environmental benefits and savings for customers are both significant. Over the next 30 years, DOE projects savings of up to \$12.9 billion in total costs for consumers, saving families and businesses money while reducing energy consumption. The new energy efficiency standard's positive environmental impact includes 3.63 quadrillion BTU's of energy saved during the above mentioned period, that translates in avoiding 265 million metric tons of CO2 emissions equivalent to the annual emissions of about 52 million automobiles.

MGM Transformers proudly supports these changes and the environmental benefits that will result from them. As a result of an exceptional team effort involving all MGMT departments, manufacturing plants and warehouses, today we are ready to provide our customers with a completely redesigned DOE 2016 compliant product line which utilizes leading edge technologies and very high quality materials providing a technically advanced and cost efficient solution for the most demanding customer applications.

LIQUID-FILLED

kVA	SINGLE PHASE EFFICIENCY (%)	kVA	THREE PHASE EFFICIENCY (%)
10	98.70	10	98.65
15	98.82	30	98.83
25	98.95	45	98.92
37.5	99.05	75	99.03
50	99.11	112.5	99.1 1
75	99.19	150	99.16
100	99.25	225	99.23
167	99.33	300	99.27
250	99.39	500	99.35
333	99.43	750	99.40
500	99.49	1000	99.43
667	99.52	1500	99.48
833	99.55	2000	99.51
		2500	99.53

DRY-TYPE

THREE PHASE			
kVA	BIL		
	20-45 kV	46-95 kV	>= 96 kV
	Efficiency (%)	Efficiency (%)	Efficiency (%)
15	97.50	97.18	NA
30	97.90	97.63	NA
45	98.10	97.86	NA
75	98.33	98.13	NA
112.5	98.52	98.36	NA
150	98.65	98.51	NA
225	98.82	98.69	98.57
300	98.93	98.81	98.69
500	99.09	98.99	98.89
750	99.21	99.12	99.02
1000	99.28	99.20	99.11
1500	99.37	99.30	99.21
2000	99.43	99.36	99.28
2500	99.47	99.41	99.33

MGM Transformers is pleased to list a sample of our satisfied customers. For more information, please contact the factory.

DRIVES INDUSTRY

Rockwell Automation
Rockwell Reliance
ABB
Toshiba
Cegelec
Lloyd Controls
Ansaldo-Ross Hill
Control Techniques

UNIVERSITIES / LABS

UCLA
UC Berkeley
UC San Diego
Fermilab
Argonne National Lab
University of Michigan
University of Minnesota
Lawrence Livermore Labs
SUNY

INDUSTRIAL & COMMERCIAL

General Electric
Siemens
Proctor & Gamble
EATON
BMW
Amazon
eBay
Boeing
Motorola
LTV Steel
Toyota
Hewlett-Packard
AT&T
Logan Aluminum
Constellium
Chrysler

PETROCHEMICAL

Amoco Oil
Arco
Chevron
Mobil Oil
Shell Oil
Exxon
Unocal
Premcor
Aramco

MUNICIPALITIES & UTILITIES

Southern California Edison
Commonwealth Edison
L.A. Department of Water & Power
Metropolitan Water District
Florida Power & Light
Pacific Bell
Iowa Power & Light
Wisconsin Power & Light
Pacific Gas & Electric
Edison International
PSEG Power LLC

ARCHITECTS & CONTRACTORS

ARAMCO
Bechtel
Brown & Root
Jacobs
Mustang
Bergelectric
Fluor Daniel
Ralph M. Parsons Co.
Black & Veatch
Rosendin Electric
Cupertino Electric

PULP & PAPER

Weyerhaeuser
Eddy Paper
Georgia-Pacific

WIND-TURBINE POWER GENERATION

Palm Springs, California
Tehachapi Pass, California
Solar City



POWER YOU CAN COUNT ON



MGM
TRANSFORMERS
BY FORGENT

📍 *MGM Transformers,
3430 E. 26th St.
Vernon CA 90056*

☎ *(323) 726-0888*

Fax: (323) 726-8224

🌐 *mgmtransformers.com*

✉ *sales@mgmtransformers.com*

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MGM Transformers is now part of Forgent Power Solutions. Learn more at www.ForgentPower.com.