



DATAMAX GENERATORS

DATA CENTER APPLICATIONS, 1100 TO 3600 KW
LOW AND HIGH VOLTAGE, 60 AND 50 HZ

DATAMAX™



DATAMAX™ GENERATORS

When mission critical loads are on the line data centers around the world have grown to rely on Marathon® generators as the most trusted, most reliable option when it comes to efficient operation, long life, proven transient performance and guaranteed uptime.

With robust designs including by far the most rugged rotor construction in the world, DATAMAX™ generators utilize wet wound epoxy rotor windings, with form coil main stator options available across the entire offering.

Marathon understands that each project can have its own unique needs in terms of performance, sub-transient reactance, space constraints, connection and protection specifications.

With a global team of highly experienced engineers, Marathon can customize our generators to meet the wide variety of application needs in the data center environment.

Marathon generators are in operation in data centers across the globe, providing safe, reliable and efficient power for standby and prime power demands.

Marathon delivers the ultimate in data center generators - the DATAMAX. DATAMAX generators are available in a range of 1100 to 3600 kW, covering 480 to 13,800 volts 60 hertz and 400 to 11,000 volts 50 hertz.

This proven low reactance model is available in three frame sizes - 740 frame, 860 frame and 1000 frame



LOW REACTANCE DESIGNS

DATAMAX generators have custom low subtransient reactance winding designs often required to meet data center specifications. Low reactance generators minimize harmonics, which limits the voltage distortion that can affect the system performance. Marathon also offers the flexibility to provide customized higher reactance designs.



WET WOUND ROTOR CONSTRUCTION

As data centers strive for 100% uptime, reliability is a critical factor. DATAMAX generators utilize single piece laminations and wet layer winding processes, to provide the most reliable rotor construction in the market today.



FORM COILS

For the most demanding specification, our form coil designs provide superior electrical and mechanical strength and are standard on our medium and high voltage offering. The DATAMAX generators are also available in random wound designs.



GLOBAL TECHNICAL SUPPORT

With a highly qualified team of engineers and technical support staff in Wausau, Wisconsin and Shanghai, China, Marathon can promptly respond to all technical inquiries relative to specification review, custom design needs, 3D files and any other technical support our customers may need.



CUSTOM DESIGNS / HIGHLY ENGINEERED SOLUTIONS

Marathon leads the industry in the ability to supply beyond the standard requirements with the flexibility and experience to offer custom reactance designs, enclosures, breaker boxes, unique buss bar configurations, a variety of accessories, and customer specified testing in our UL®* Certified lab.



DIGITAL VOLTAGE REGULATOR

DATAMAX™ generators are supplied with the proven DVR®2400 automatic voltage regulator ("AVR"). The DVR2400 AVR provides ¼% voltage regulation and utilizes an isolated PMG power supply to assure reliable voltage output independent of the load on the generator. And with nonlinear loads very common in data center applications, this isolated power input to the generator assures that there will be stable voltage to the load. The DVR2400 AVR also offers 14 different protective features, many customizable to the specific application, 300% short circuit protection and many other features to insure long, reliable life.



RELIABILITY

Marathon generators have demonstrated unprecedented reliability with decades of proven performance, long life, and with the high volume customers reporting years of trouble-free operation.



SUSTAINABILITY

Marathon takes great pride in protecting our precious planet, with key initiatives to reduce our global footprint and to keep our employees safe and the environment protected. We are motivated by the fact that our products create a better tomorrow by reducing demands for energy.



GLOBAL MANUFACTURING

With manufacturing facilities in North America, Mexico and China, Marathon can respond with worldwide, competitive lead times and support.

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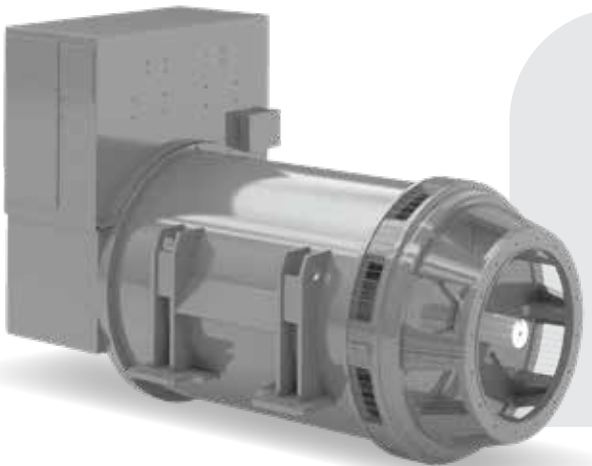
MARATHON® GENERATORS INNOVATION

Marathon Generators offers three frame sizes and numerous designs to meet the unique needs of data center specifications; providing a proven, reliable, dependable generator offering for all your application needs.



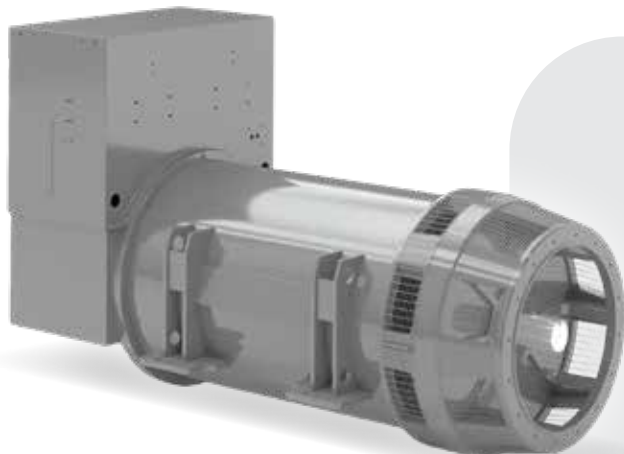
740 FRAME DESIGNS

- Low Voltage
 - 60 Hertz, 1310 - 2650 kW
 - 50 Hertz, 1500 - 2650 kVA
- Low reactance machines
- Form or random wound
- Flexible designs – single or two bearing
- Compact, lighter versus 1000 frame



860 FRAME DESIGNS

- Low Voltage
 - 60 Hertz, 2300 - 3100 kW
 - 50 Hertz, 2400 - 3375 kVA
- High voltage from 1100 - 2350 kW
- Low reactance machines
- Form or random wound
- Flexible designs



1000 FRAME DESIGNS

- Low Voltage up to 3600 kW – 60 Hertz,
3288 kVA – 50 Hertz
- High Voltage up to 3500 kW – 60 Hertz,
3750 kVA – 50 Hertz
- Low reactance machines
- Form or random wound
- Flexible designs

60 Hertz
4-pole
Low and High Voltage
Three Phase

1800 RPM
40°C Ambient
0.8 Power Factor Lagging
DVR®2400 AVR with PMG Excitation

All 860 and 1000 frame frame generators have 4 bus bars, with the capability of differential protection.

480Y/277 Volts

Base Model	Winding	80°C		105°C		125°C		130°C		150°C	
		kW	X"d*	kW	X"d*	kW	X"d*	kW	X"d*	kW	X"d*
4 Bars											
743RSL1352	Random	1310	0.084	1600	0.102	1700	0.109	1750	0.112	1750	0.112
744RSL1354	Random	1500	0.060	1850	0.074	1960	0.078	2000	0.080	2000	0.080
744RSL1356	Random	1700	0.081	2010	0.095	2160	0.103	2210	0.105	2260	0.107
764RSL1364	Random	2000	0.070	2250	0.079	2400	0.084	2500	0.088	2650	0.093
6 Leads											
862RSL13006	Random	2300	0.089	2685	0.104	2880	0.112	2880	0.112	3110	0.121
1020RDL1309	Random	2550	0.086	3050	0.103	3250	0.110	3250	0.110	3400	0.115
1020RDL1311	Random	2800	0.106	3250	0.123	3400	0.129	3500	0.133	3600	0.137
863FSL13056	Form	2400	0.094	2730	0.106	3000	0.117	3000	0.117	3100	0.121
1020FDL1300	Form	1880	0.113	2190	0.131	2290	0.137	2340	0.140	2340	0.140
1020FDL1302	Form	2000	0.102	2250	0.115	2500	0.128	2500	0.128	2500	0.128
1020FDL1306	Form	2250	0.096	2710	0.116	2800	0.120	2800	0.120	2800	0.120
1020FDL1308	Form	2340	0.100	2800	0.120	2900	0.124	3000	0.129	3000	0.129
1030FDL1310	Form	2530	0.085	3080	0.104	3260	0.110	3350	0.113	3350	0.113

All 860 and 1000 frame frame generators have 4 bus bars, with the capability of differential protection.

13200Y/7621 Volts

Base Model	80°C		105°C		130°C	
	kW	X"d*	kW	X"d*	kW	X"d*
Form Wound, 6 Leads						
861FSH14152	1100	0.116	1260	0.132	1360	0.143
862FSH14154	1300	0.116	1500	0.133	1620	0.144
862FSH14156	1500	0.104	1750	0.121	1860	0.129
863FSH14158	1680	0.092	2000	0.110	2100	0.115
863FSH14160	1900	0.106	2150	0.120	2350	0.131
1020FDH1440	1500	0.090	1750	0.106	1875	0.113
1020FDH1442	1750	0.105	2000	0.120	2180	0.131
1020FDH1444	1800	0.108	2010	0.121	2250	0.135
1020FDH1446	1800	0.096	2170	0.116	2360	0.126
1020FDH1448	2000	0.101	2250	0.113	2500	0.126
1030FDH1452	2200	0.090	2550	0.105	2800	0.115
1030FDH1454	2350	0.082	2800	0.098	3070	0.107
Consult factory for extended ratings.						

- High voltage sensing potential transformers (P/Ts) are not included. For three-phase sensing, a three-phase PT is required.
- All 860 and 1000 frame generators on this page have 100 ohm platinum winding RTDs as standard equipment.
- All high voltage generators incorporate form wound coils and VPI insulation systems.
- Consult factory for altitude above 3300 ft.

50 Hertz

4-pole
Low and High Voltage
Three Phase

1500 RPM
40°C Ambient
0.8 Power Factor Lagging
DVR®2400 AVR with PMG Excitation

All 860 & 1000 frame generators have 4 bus bars, with the capability of differential protection.

Base Model	Winding	80°C		105°C		125°C		130°C		150°C	
		kVA	X"d*	kVA	X"d*	kVA	X"d*	kVA	X"d*	kVA	X"d*
4 Bars											
743RSL1352	Random	1275	0.078	1550	0.095	1688	0.103	1688	0.103	1813	0.111
744RSL1354	Random	1513	0.061	1788	0.072	1925	0.077	1925	0.077	2038	0.082
744RSL1356	Random	1763	0.083	2113	0.099	2288	0.108	2338	0.11	2450	0.115
744RSL1359	Random	1788	0.06	2088	0.07	2275	0.077	2313	0.078	2550	0.086
764RSL1364	Random	1875	0.061	2200	0.072	2400	0.079	2500	0.082	2650	0.087
6 Lead, 4 Bus Bars											
862RSL13006	Random	2438	0.091	2750	0.103	3000	0.112	3000	0.112	3188	0.119
1020RDL1309	Random	2563	0.083	3125	0.101	3250	0.105	3313	0.107	3500	0.113
1020RDL1311	Random	2875	0.099	3438	0.118	3563	0.122	3563	0.122	3750	0.129
863FSL13056	Form	2525	0.095	2813	0.105	3125	0.117	3125	0.117	3375	0.126
1020FDL1300	Form	1888	0.109	2200	0.127	2200	0.127	2200	0.127	2200	0.127
1020FDL1302	Form	1950	0.095	2275	0.111	2275	0.111	2275	0.111	2275	0.111
1020FDL1306	Form	2206	0.09	2700	0.111	2738	0.112	2738	0.112	2738	0.112
1020FDL1308	Form	2338	0.096	2788	0.114	2813	0.115	2813	0.115	2813	0.115
1030FDL1310	Form	2550	0.083	3050	0.099	3250	0.105	3288	0.106	3288	0.106

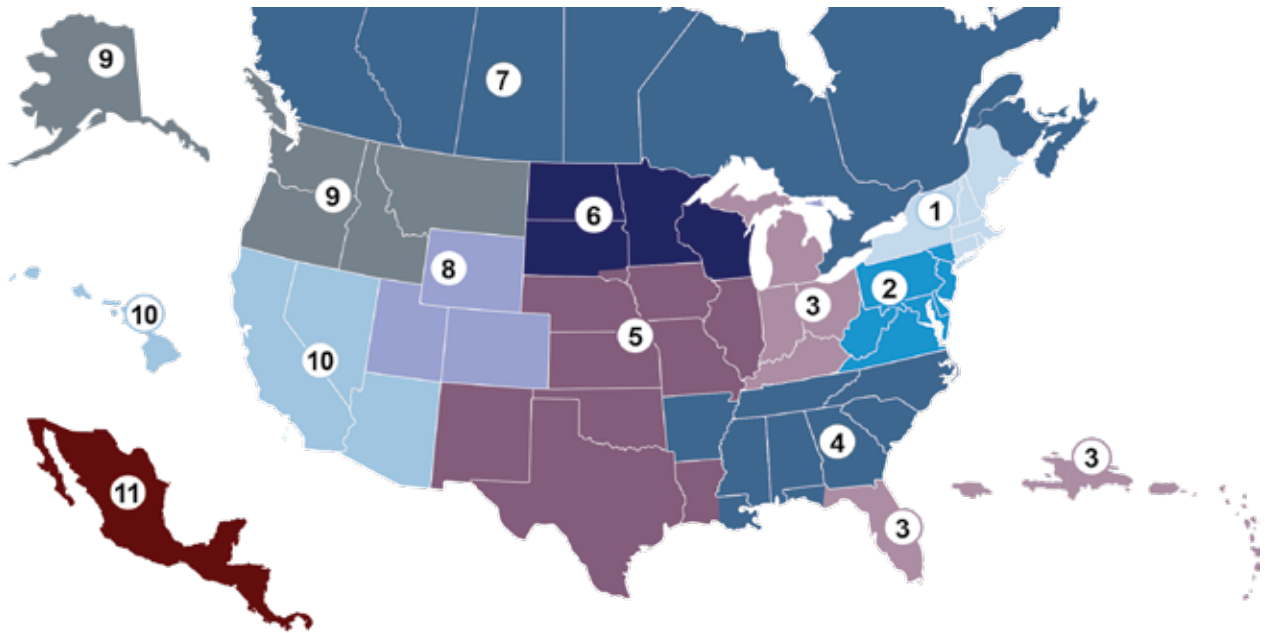
11000Y/6351Y Volts

All 860 & 1000 frame generators have 4 bus bars, with the capability of differential protection.

Base Model	80°C		105°C		130°C	
	kVA	X"d*	kVA	X"d*	kVA	X"d*
Form Wound, 6 Lead, 4 Bus Bars Standard						
861FSH14152	1131	0.114	1313	0.132	1413	0.142
862FSH14154	1350	0.115	1563	0.133	1688	0.144
862FSH14156	1563	0.104	1813	0.121	1938	0.129
863FSH14158	1788	0.094	2063	0.108	2188	0.115
863FSH14160	1975	0.106	2288	0.123	2500	0.134
863FSH14162	2162	0.122	2500	0.141	2625	0.148
1020FDH1440	1500	0.086	1750	0.101	1875	0.108
1020FDH1442	1775	0.102	2063	0.119	2188	0.126
1020FDH1444	1838	0.106	2175	0.125	2363	0.136
1020FDH1446	1900	0.097	2250	0.115	2425	0.124
1020FDH1448	1975	0.096	2375	0.115	2588	0.125
1030FDH1452	2188	0.086	2550	0.101	2875	0.113
1030FDH1454	2500	0.084	2913	0.097	3200	0.107
Consult factory for extended ratings.						

- High voltage sensing potential transformers (P/Ts) are not included. For three-phase sensing, a three-phase PT is required.
- All 860 and 1000 frame generators on this page have 100 ohm platinum winding RTDs as standard equipment.
- All high voltage generators incorporate form wound coils and VPI insulation systems.
- Consult factory for altitude above 1000 masl.

North American Sales Territories Map



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2 FJ Toolan Inc.
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Phone: 609-259-0387
E-mail: jeff@fjtoolan.com

3 Davidson Sales
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4 Underwood Sales Co.
2783 Longate Drive
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5 Power Source Midwest, Inc.
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When dialing from outside the country, omit the number in [].

marathon®



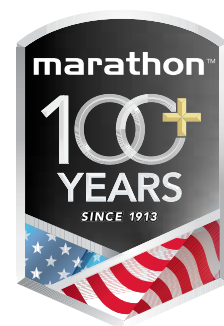
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The proper selection and application of products and components, including assuring that the product is safe for its intended use, are the responsibility of the customer.

To view our Standard Terms and Conditions of Sale, please visit <https://www.marathonelectric.com> (which may redirect to other website locations based on product family).

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