

ERM1200GMS (1200 KW) MITSUBISHI NATURAL GAS GENERATOR SET

	STANDBY RATING FOR
	EMERGENCY USE (*)
ERM1200GMS RATED OUTPUT	60 HZ
GENERATOR OUTPUT (KW)	1200
GENERATOR OUTPUT (KVA)	1500
GENERATOR SPEED (RPM)	1200

FUEL EFFICIENCY	BTU/kwh	CFH
FUEL CONSUMPTION	8,057	10,990
At 100% load based on L.H.V.		

NOTE: Fuel consumption has a 5% tolerance

HZ	WIRE	VOLTAGE RANGE
60 HZ	3	440 — 480
60 HZ	4	254/440 — 277/480
NOTE:	4,160 &	13,800 are also available

WEIGHT	/ DIMENSIONS	WITH RADIATOR
WLIGHT	DINITIONS	WITH KADIATOK

WxLxH(in)	100" x 290" x 115"
Wet Weight (lbs)	38,500

WFIGHT /	DIMENSIONS	WITHOUT	RADIATOR

W x L x H (in)	84" x 199" x 98"
Wet Weight (lbs)	32,500

The **ERM1200GMS (1200 kW)** continuous duty system stands out as a leader in its class. Boasting a continuous duty output of **1200** kW and powered by a heavy duty **MITSUBISHI** engine, coupled with an efficient STAMFORD generator, this ENER-G Rudox generator set will meet and exceed all your power generation needs. At **8,057** BTU/kwh at full load, the fuel efficiency of the reliable **MITSUBISHI** engine provides the consistent, dependable performance you have come to expect from any ENER-G Rudox product. This unit is loaded with standard equipment such as a Digital Controller and the customer control interface is easy to operate with basic displays such as voltage, current and power as well as alarms like low oil pressure, battery charge failure and high coolant temperature. All of this comes with the exceptional 24 hour, seven day a week service guarantee provided by the ENER-G Rudox professional service team.

PERFORMANCE CHARACTERISTICS

Standard ENER-G Rudox Generator Sets have High Performance Components to meet the Toughest Applications

PRECISE VOLTAGE REGULATION

- + ½% Steady State
- + 1 % from No Load to Full Load

PRECISE FREQUENCY CONTROL

The Woodward Electronic Isochronous Governor has 0% Droop, No Load to Full Load, and $\pm \frac{1}{2}$ % Steady State

PERMANENT MAGNET EXCITATION

Provides excellent performance with heavy SCR Loads

300% Full Load Current available for 10 Seconds during Short Circuit Condition

▶ HIGH MOTOR STARTING CAPACITY GENERATOR

250% of Rated Capacity for 10 Seconds

PARALLELING OPTIONS

Controls can be added for completely Automatic Multi-Unit Synchronization and Load Sharing

► LOW EMISSIONS - MEETS US EPA STANDARDS FOR STANDBY USE

The MITSUBISHI Lean Burn Engine has Low Emissions and can be certified for Emergency or Prime Power Use

► UL2200

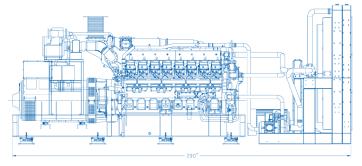
Units are built to U.L. Standards; U.L. Certification is also available

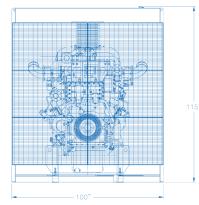
CLEAN EXHAUST EMISSIONS DATA (FOR STANDBY)

NOx	0.9 g/bhp-hr (100% load)
CO	0.5 g/bhp-hr (100% load)
NMHC	0.5 g/bhp-hr (100% load)

STANDARD NATURAL GAS SUPPLY REQUIREMENTS

Requires a maximum of 12.0 Million BTU/hr of Pipeline Quality Gas at 1040 BTU/CF and 2.9 PSI





GENERATOR SET SPECIFICATIONS ERM1200GMS RATED OUTPUT 60 HZ (100% loaded) **GENERATOR SPEED (RPM)** 1200 **GENERATOR OUTPUT (KW)** 1200 **GENERATOR OUTPUT (KVA)** 1500 COMBUSTION AIR FLOW (CFM) 2828 HEAT REJECTION TO AMBIENT (BTU/MIN) 5350 781°F **EXHAUST TEMPERATURE EXHAUST GAS FLOW (SCFM)** 3310 RADIATOR FLOW (CFM) 93,000

STANDARD EQUIPMENT

- MITSUBISHI GS16R2-PTK Natural Gas Miller Cycle Engine
- STAMFORD Single Bearing Generator (PI736F) rated for 150° C rise with 3 phase Static Voltage Regulator (MX321) and Permanent. Magnetic Excitation. All rated per NEMA Code with Class H Insulation.
- >> Heavy Duty Structural Steel Sub-Base
- >> Woodward Electronic Governor and Air/Fuel Ratio Controller
- >> 24 Volt Electric Start System
- Dual 20 Amp Battery Chargers
- Residential Silencer with Stainless Steel Flexible Connection
- >> 2-Way Oxidation Catalyst
- >> 24 Volt Lead Acid Batteries, Rack and Cables
- Flexible Gas Line with Duplex Gas Shutoff Valves and Natural Gas Regulator
- Freestanding radiator cooling system for 100°F Ambient and 0.5" Additional Static.
- >> Freestanding Control Panel with Digital Controller
- ▶ Engine Safety Switches and Pre-Alarms to Meet NFPA Requirement
- Pre-chamber Gas Compressor Mounted Integral with Generator Skid

NATURAL GAS ENGINE - MITSUBISHI GS16R2-PTK MILLER CYCLE

ТҮРЕ	4 Cycle, Water-Cooled, Turbocharged, Intercooled
COMBUSTION CHAMBER	Ultra Lean Burn with Pre-Chamber
COMPRESSION RATIO	12:1
ENGINE SPEED	1200 RPM
CYLINDER ARRANGEMENT	60° V, 16 Cylinder
DISPLACEMENT	4876 Cubic Inch; Bore, 6.69; Stroke 8.66
EXHAUST FLEX DIAMETER (MIN)	12 Inches (inside)
MUFFLER DIAMETER (MIN)	16 Inches (inside)
MAXIMUM EXHAUST BACK PRESSURE	20 Inches of Water



DISPLAYS FOR DIGITAL CONTROL PANEL

Engine Speed	Battery Voltage	Frequency
Hours Run	Phase to Neutral Voltage	Power Factor
Manifold Air Temp	Phase to Phase Voltage	kW and kVA Output
Intercooler Inlet Temp	Current (Amps) per Phase	Various Others

ENGINE / GENERATOR ALARMS

High Manifold Air Temp	High Coolant Temp	Reverse Power
Low Coolant Level	Emergency Stop Activated	Negative Sequence Current
Low Oil Pressure	Over and Under Voltage	Various Others
Over-speed	Incorrect Phase Sequence	
	Over and Under Frequency	

OPTIONAL EQUIPMENT

Remote Radiator System or High Ambient System	High Voltage Generator – 4,160 or 13,800	Paralleling Controls
Critical Silencer	Main Line Circuit Breaker	Jacket Water Heater
Outdoor Sound Attenuated Enclosure	Remote Annunciator (NFPA Compliant)	Starting aids for 10 to 15 Second Start-up
US EPA Certifications or Site Testing	Spring Vibration Dampers	Gas Booster when Main Gas from Utility is less than 2.9 PSI W.C.
U.L. Certification	Automatic Transfer Switch	Others, as Required



ENER-G Rudox, founded in NJ in 1949, is a full service energy product provider for commercial and industrial energy applications. Products include energy efficient Stand-by Power Solutions, Emergency Rentals, Cogeneration, and CHP or CCHP/Tri-Generation systems with state of the art monitoring capabilities. ENER-G Rudox can recommend different techniques and Holistic technologies and can develop, deliver and finance sustainable energy solutions. In-house capabilities allow ENER-G Rudox to design and supply a system to meet the customer's exact specifications. With its fully staffed 24/7 Service Department and Parts Department, ENER-G Rudox has established a reputation of providing quality machines with responsive, reliable, personalized service at competitive prices.