### GGW625MA | E3262-LE202 | 500kW COP

INDUSTRIAL SPARK IGNITED GENERATOR SET

PRAMAC | Power Engineering Division









POWER RATINGS					
GGW625MA	CONTINUOUS	625 kVA / 500 kW			

#### **Codes And Standards**

PRAMAC products are designed to the following standards:





BS 5514 and 6271



**SAE J1349** 



NFPA 37, 70, 99, 110



NEC 700, 701, 702, 708



ISO 3046, 7637, 8528, 9001



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41

#### **ENERGY GENERATION**

PRAMAC ensures superior quality and performance by managing all aspects of production, from design to manufacturing.

PRAMAC can trace its roots back to 1966; from then on, it has been expanding its activity in the energy and material-handling sector, continuously growing globally with a wide and flexible product range.

In the field of power generation, PRAMAC offers solutions for every kind of power supply demand: portable and industrial generators for standby and prime power applications, as well as mobile and towable lighting for outdoor needs.

PRAMAC operates through a wide distribution network and provides global coverage even in the most demanding markets.

### GGW625MA | E3262-LE202 | 500kW COP

#### INDUSTRIAL SPARK IGNITED GENERATOR SET

PRAMAC | Power Engineering Division

#### STANDARD FEATURES

#### **ENGINE SYSTEM**

- Oil drain extraction pump
- Heavy Duty Air Cleaner
- Air Filter restriction indicator
- Engine mounted Varifuel Mixer
- Ignition System MOTORTECH
- Stainless Steel Flexible Exhaust Connection
- Factory-Filled Oil And Coolant
- Industrial Exhaust Silencer

#### **Fuel System**

- Primary And Secondary Fuel Shutoff
- Fuel Line Flanged Connection

#### **Cooling System**

- Close Coolant Recovery System
- UV/Ozone resistant hoses
- Factory Installed Radiator
- Electric Cooling fan
- 50/50 Ethylene Glycol Antifreeze
- Radiator Drain Extension

#### **Electrical System**

- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

#### ALTERNATOR SYSTEM

- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Auxiliary Winding Excitation System
- Sealed Bearing
- Amortisseur Winding
- Full-Load Capacity Alternator

#### **GENERATOR SET**

- Internal Genset Vibration Isolation
- Wrapped Exhaust Piping (Enclosed)
- Bottom (floor) power cable outlet
- Exhaust silencer Mounted in the Discharge Hood (Enclosed Sets)

#### ENCLOSURE (if selected)

- High-Performance Sound Absorbing Material
- Gasketed Doors
- Galvanized Sheet Metal Construction
- Upward Facing Discharge Hood (exhaust)
- Stainless Steel Hinges

#### CONTROL SYSTEM



#### **ALL-IN-ONE Control System**

#### **Program Functions**

- Programmable Crank Limiter
- RS232/485 Communications
- LAN communication
- 3-Phase sensing Voltage Regulator
- 2-Wire start Capability
- Date/Time Fault History (event Log)
- Isochronous Governor Control
- Standalone or Genset-Parallel
- Audible Alarms and shutdown
- Auto On/Off Manual Switch

- Customizable Alarms, Warnings, **Events**
- Modbus protocol
- Password Parameter Adjustment Protection
- Single Point Ground
- Alarm Information Automatically Announced on the touchscreen display
- Gas train control
- Combustion control
- Detonation control

#### **Full System Status Display**

- Power Output (kW)
- Power Factor Cos(φ)
- kWh total and last run
- Active/Reactive/Apparent Power
- All Phase AC voltage
- All Phase Currents
- Oil Pressure

- **Engine Speed**
- **Battery Voltage**
- Frequency

#### **Alarms And Warnings**

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Low Fuel Pressure Alarm
- Engine Over-speed
- Battery Voltage
- Alarms and Warnings times and date stamped
- Snap Shot of key Operation Parameters during Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)
- Multilingual

# 50 Hz SPECSHEET

### GGW625MA | E3262-LE202 | 500kW COP

INDUSTRIAL SPARK IGNITED GENERATOR SET

PRAMAC | Power Engineering Division



#### **OPTIONAL FEATURES**

#### **ENGINE SYSTEM**

- Engine Block heater (forced circulation)
- Lube-Oil make-up system with tank

#### **ALTERNATOR SYSTEM**

- Upsized Alternator
- Anti-Condensation Heaters
- Permanent Magnet (PMG)
- Thermistors on alternator's windings
- Temperature Sensors (PT100) on alternators windings
- Double bearing alternator with flexible joint upgrade

#### **CIRCUIT BREAKER OPTIONS**

- 4-pole Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Differential Protection

#### **ELECTRICAL SYSTEM**

10A UL/CE float battery charger

#### **GENERATOR SET**

Leak proof tray

#### CONTROL SYSTEM

- Remote Connection kit with Antenna
- Modular Parallel Panel with MCB upgrade in lieu of standard thermal magnetic breaker

#### **ENCLOSURE**

• Special Color Requirements

#### **ENGINEERED OPTIONS**

#### **ENGINE SYSTEM**

- Engine Battery Warmer
- Heavy-Duty air filters

#### **ELECTRICAL SYSTEM**

- ATS with transfer inhibition
- Load Shedding control
- 20 Amp Battery charger

#### **ALTERNATOR SYSTEM**

- Class F temperature rise sizing
- Tropical Coating

#### **CIRCUIT BREAKER OPTIONS**

Special Bus-bars Connections

#### **GENERATOR SET**

- Spring vibration isolators
- Extended containment tray with leak detector

#### **CONTROL SYSTEM**

- Special firmware programming
- Non-Standard language
- Communication programming

#### **ENCLOSURE**

- Motorized louvers
- Sand traps on intake vents
- Non-Standard sheet metal
- Containerized option
- Special sound requirements

# **50 Hz SPECSHEET**

# **GGW625MA** | **E3262-LE202** | **500kW COP**

INDUSTRIAL SPARK IGNITED GENERATOR SET

PRAMAC | Power Engineering Division



#### **APPLICATION ENGINEERING DATA**

#### **ENGINE SPECIFICATIONS**

General	
Make	MAN E3262LE202
Cylinder #	12
Type	V
Displacement [L]	25.8
Bore [mm]	132
Stroke [mm]	157
Compression Ration	12:1
Intake Method	. Turbocharged/After-cooled
N. of Bearings	7
Connecting Rods	Steel Alloy
Cylinder Head	Cast Iron OHV
Cylinder Liners	Cast Iron Alloy
	Electric
Piston Type	Aluminum Alloy
Crankshaft Type	Forged Steel Alloy
Lifter Type	
Intake Valve Material	High-Tepm. Steel Alloy
Exhaust Valve Material	High-Tepm. Steel Alloy
Hardened Valve Seats	High-Tepm. Steel Alloy
Engine Governing	
Governor	Electronic
Frequency Regulation (stead	dy state) ±0,25%

Crankcase Capacity [L]	Twin Full Flow
Cooling System Cooling System Type Pressurized Fan Type Fan drive	Pusher
Fuel System Fuel Type	ortech VARIFUEL Standard Standard (Dual)
Engine Electrical System System Voltage Battery Charger Alternator Battery Size Battery Voltage Ground Polarity	Standard See Bulletin 2 x 12 VDC

#### **ALTERNATOR SPECIFICATIONS**

Standard Model	
Field type	Revolving
Insulation Class (Rotor)	
Insulation Class (Stator)	H
Total Harmonic Distortion (THD)	<5%
Telephone Interference Factor (TIF)	<50

Standard Excitation	Auxiliary Winding
	, ,
Bearings	
Coupling	Direct via Flexible Disc
Sustained Short Circuit Current	300% (20s)
Number of Sensed Phases	All
Regulation Accuracy	±1%

# **50 Hz SPECSHEE**'

# GGW625MA | E3262-LE202 | 500kW COP

INDUSTRIAL SPARK IGNITED GENERATOR SET

PRAMAC | Power Engineering Division



#### **OPERATING DATA**

#### **POWER RATINGS**

Continuous (Baseload)

	Continuous (Eucorous)
Three Phase 400 / 231 V AC @ PF=0,8	625kVA / 500 kW Amps:902

#### **STARTING CAPABILITIES (SKVA)**

#### sKVA vs. Voltage Dip

				400 / 2	231 V AC					380 / 2	220 V AC		
Alternator	kVA	10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	625	294	460	645	880	1134	1512	268	418	586	800	1030	1374

#### **FUEL CONSUMPTION RATES\***

Percent Loads	Kg/h
50%	55
75%	78
100%	102

<sup>\*</sup> Fuel supply installation must accommodate fuel consumption rates at 100% load

#### **COOLING**

		Standby
Air Flow (Combustion and Cooling)	m³/min	650
Coolant Flow	I/min	738
Coolant System Capacity	L	55
Heat Rejection To Coolant	kW	278
Maximum Operating Ambient Temperature	°C	40

#### **COMBSUTION AIR REQUIREMENT**

Flow at Rated Power – Kg/h	2648	

#### **ENGINE**

Rated Engine Speed	rpm	1500
Horsepower at rated rpm	bHp	738
Piston Speed	m/s	7,85
BMEP	bar	15

#### **EXHAUST**

Exhaust Flow	M³/min	73.3
Max. Backpressure	kPa	4
Exhaust Temp.	°C	402

# **50 Hz SPECSHEET**

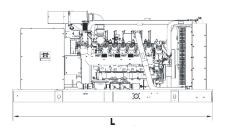
# **GGW625MA | E3262-LE202 | 500kW COP**

INDUSTRIAL SPARK IGNITED GENERATOR SET

PRAMAC | Power Engineering Division



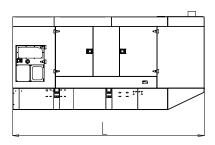
#### **OPERATING DATA**

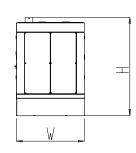




#### **OPEN SET (Includes Exhaust Flex)**

L x W x H - mm	TBD	
Weight - Kg	TBD	





#### STANDARD ENCLOSURE

L x W x H - mm	5600 x 1950 x 2575
Weight - Kg	8300