

## E BD EM 0550

### BAUDOUIIN Series Diesel Generator Sets

STAND BY	kVA	550
	kW	440
PRIME	kVA	500
	kW	400



Water Cooled



50 hz



Easy maintenance



Modular type sound-proof canopy



3 phase



Diesel



Warning system for decreasing fuel with electronic fuel level sender



Remote control system

**Standby Rating** for a standby engine should be sized for a maximum of 70% average load factor and roughly 200 hours per year. Standby power ratings should never be applied except in true emergency outage situations. With standby rated generators there is no overload capability built into the units.

**Prime Power** is the maximum power accessible at the variable load for an unlimited number of hours per year in a variable load setting. It is not advisable that the variable load exceed 70% average of the prime power rating during any operational period. If the engine is running at 100% prime power, yearly hours should not exceed 500. Overload situations should be avoided however a 10% overload capability is available for a 1 hour period within a 12 hour cycle of operation.

**Continuous Power** is used in applications where supplying power is at a constant %100 load for an unlimited number of hours each year. Continuous power rated units are most widely used in applications where the power grid is unreachable.

## QUALITY STANDARDS

Our generators are manufactured in compliance with VDE 0530, BSE 4999 BS5000, IEC 34, EN12601; EN60204-1; TS ISO 8528-1 ... -13; EN12100-1; EN12100-2; EN61000-6-4; EN61000-6-2; EN61000-4-11; EN61000-4-6; EN61000-4-5; EN61000-4-2; EN55011; EN55016-2-1; EN55016-2-3; EN61000-3-2; EN61000-3-3; EN55014-1; EN61000-6-2; EN61000-4-3; EN61000-4-4; EN61000-4-8; EN61000-4-11; TS EN ISO 3744; TS EN ISO 3746; TS EN 60034-1; TS EN 60034-22; TS EN ISO 3046; BS 5514; NEMA MG 21; IEC 60034, BS 4999/5000 and TS EN 60947-1..4 standards.

We have ISO 9001-2015, ISO 14001-2015, ISO 45001-2018 and ISO 1002-2006 management system certificates from Kiwa, an accredited independent quality organization.

Our generators up to 400 kw are manufactured in compliance with 2000/14/EC European noise emission directive and certified from Ente Certificazione Macchine.

We also have TS ISO 8528-4, TS ISO 8528-5, TS EN 13501-1+A1:2013 flame retardancy and TTS EN ISO 9227 certificates against anti-corrosion together with CE Declaration.



## Engine Specifications

- BAUDOIN series heavy duty diesel engine
- 4 cycle, water cooling system, turbocharged - aftercooler induction
- Electronic governor system
- 12/24 volt self-starter and charger alternator
- Changeable air, fuel and oil filter
- Flexible fuel pipe

- Oil discharge valve and extension pipe
- Industrial type silencer, exhaust spiral or compensator
- Maintenance free battery
- Engine block water heater (in automatic models)
- Diesel gen-set maintenance and operating instructions and electrical circuit diagram

MODEL		6M21G550/5
POWER	STAND BY kW	476
	PRIME kW	463
SPEED (rpm)		1500
CYCLE		4
DISPLACEMENT (lt)		12,54
NUMBER OF CYLINDERS		6, in line
BORE AND STROKE		127 x 165
COMPRESSION RATIO		15.2 : 1

GOVERNOR TYPE		Electronic
INDUCTION		TURBOCHARGED - AFTERCOOLER
COMBUSTION SYSTEM		DIRECT
COOLING SYSTEM		WATER
FUEL CONSUMPTION (lt/h)	100% OF PRIME POWER	109,5
	75% OF PRIME POWER	75,3
	50% OF PRIME POWER	51
TOTAL LUBRICATION SYSTEM CAPACITY (lt)		38
TOTAL COOLANT CAPACITY (lt)		62



## Alternator Specifications

- Brushless, single bearing, flexible disc 4 poles alternator for harmonic failure
- H type isolation class
- IP 21-23 protection class
- Self exciter

- Electronic automatic voltage regulator
- Stator 2/3 step for harmonic failure
- The alternator windings are protected by insulating varnish against oil and acid

BRAND		EMSA
MODEL		EGK315-400N
FREQUENCY (HZ)		50
POWER (KVA)		550
DESIGN		4 pole, brushless
CONNECTION TYPE		Star
VOLTAGE (V)		400

PHASE		3
A.V.R.		KR440
VOLTAGE REGULATION (+/-)		± 1%
INSULATION SYSTEM		Class H
PROTECTION		IP23
RATED POWER FACTOR		0,8
WEIGHT COMP. ALTERNATOR (KG)		1202,5