



Generating set model 15BA/33TNE

Standard features:

Engine:

12V electric starting with battery
 Radiator designed to work up to 50°C ambient temperature without power deration
 Low oil pressure and high coolant temperature sensors
 Fuel filter
 Lube oil filter
 Dry air filter
 Protection grids for rotating parts
 Electronic speed governor
 Industrial muffler

Alternator:

4P, three phase, single bearing, brushless, self excited
 Automatic voltage regulator, digital type

Structural steel base:

Vibration dampers between engine/alternator monoblock and the base
 Fuel tank

Set mounted control panel

Documentation:

- Generating set use and maintenance manual
- Engine use and maintenance manual
- Alternator use and maintenance manual
- Generating set controller instruction manual
- Wiring diagram
- EC Declaration

Regulations and Standards:

Generating set is designed in compliance with the following regulations and standards:

- ISO 8528
- 2006/42/EC (Machinery) and subsequent amendments
- 2014/30/EU (Electromagnetic Compatibility) and subsequent amendments
- 2014/35/EU (Low Voltage) and subsequent amendments
- 2000/14/EC (Noise Emission in the Environment) and subsequent amendment 2005/88/EC
- EN 61439-1

Available on request:

Engine:

- 24V electric starting
- Electronic speed governor
- Oil suction pump [soundproof sets only]
- Fuel transfer pump
- Water pre-heating [sets in standby to the mains only]

Silencer:

- Residential silencer for open sets designed to reduce noise level by $\leq 28 / 30$ dB(A)
- Residential silencer for open sets designed to reduce noise level by $\leq 18 / 20$ dB(A)

Control panel:

- Remote ATS system for set mounted automatic control panel
- AMF+ATS control panel
- Differential protection
- Coolant temperature reading
- Oil pressure reading

Enclosure:

- Soundproof canopy designed to achieve 70 ± 3 dB(A) @ 7m
- Soundproof canopy designed to achieve 75 ± 3 dB(A) @ 7m

Low speed trailer

Generating set designed and manufactured in facilities certified to ISO 9001

Generating set

Prime power output (PRP)	30 / 24 (KVA / kW)
Standby output (STP)	33 / 26,4 (KVA / kW)
Power factor	0.8
Voltage	400 (V)
Frequency	50 (Hz)
Rated speed	1500 (RPM)
Current @ PRP	43,35 (A)

Fuel consumption

Fuel	Diesel EN590
Fuel tank capacity	100 l
Autonomy @ 75% of PRP	approx 14 h
Consumption @ full load	9,5 l/h
Consumption @ 75% of PRP	7,0 l/h
Consumption @ 50% of PRP	4,7 l/h

General features

Battery capacity	1 x 100 Ah
Voltage	12 Vdc
Cooling fan air flow	1,8 m ³ /sec
Air consumption @ PRP	170 m ³ /h
Exhaust gas flow (max)	211 Kg/h
Exhaust gas temperature (max)	504 °C

Approx overall dims and weight

L (cm)	(W) (cm)	H (cm)	Weight (Kg)
112	62	78	280

Standard operating environmental conditions

Temperature	25°C
Barometric pressure	100 kPa
Relative humidity	30%

Rating definitions

Prime Power (PRP)	Prime power is the maximum power available with varying loads for an unlimited of hours. The average power output during a 24h period of operation, must not exceed 80% of the declared prime power between the prescribed maintenance intervals at standard environmental conditions. A 10% overload is available for 1h every 12h of operation.
Standby Power (STP)	Stand-by power is the maximum power available for a period of 500h/y with a mean load of 90% of the declared stand-by power. No overload is permissible for this use.

Engine

Manufacturer	BAUDOUIN
Model	4M06G35/5
Emissions	Stage 0
Cooling	Water
Aspiration	Turbocharged
Combustion system	Direct injection
Compression ratio	17,5 : 1
Governor	Electronic
Cycle	Diesel, 4 strokes

Cylinders (number/configuration)	4L
Bore x Stroke	89x92 (mm)
Displacement	2,3 l
Standby mechanical power	28 kWm
Alternator	35A / 12V
Starter motor	3,7 kW / 12V
Recommended lube oil	ACEA E3-E5
MAX oil capacity	11,5 l
Coolant capacity (engine + radiator)	9,4 l
Oil consumption (% of fuel)	≤ 0,4

Alternator

Manufacturer	Mecc Alte
Model	ECP28 VL/4 C
Rated power	30 kVA
Insulation class	H
Mechanical protection	IP23
Regulator	DSR, digital
Accuracy	±1 %
Execution	Brushless
Efficiency at full load	88,3 %
Short circuit current	>300 %
Overload per 20 sec	300 %
Waveform Distortion (THD) at full load (LL/LN)	1,8 / 1,9 %
MAX Overspeed	2250 RPM
Air flow	15,7 m ³ /min

Manual control panel

- Set mounted
- 4P magneto-thermal circuit breaker
- BE24A Plus digital controller
- Fuel level gauge
- Emergency stop push button

Autostart control panel

- Set mounted
- 4P magneto-thermal circuit breaker
- BE24A Plus digital controller
- Fuel level gauge
- Automatic battery charger
- Emergency stop push button
- Arranged for remote transfer switch

BE24A

- Digital controller for manual and automatic management of generators.

Front Panel features:

- 2 LEDs
- three position key selector (ON / OFF / START)
- 6 push-buttons
- indication of the main engine alarms
- 4 digit display showing engine
- generator alarms and parameters

Parameters displayed:

❖ Generator:

- Voltage
- Frequency
- current

❖ Engine:

- battery voltage
- charger alternator voltage
- running hours
- engine speed (RPM)

- ❖ **Automatic shutdown** on low oil pressure, high engine temperature, charge failure, low fuel level

❖ **In addition to above alarms, the display can show following faults:**

- external emergency stop
- belt break
- over-/under frequency
- over-under voltage
- failed start
- over-under speed
- overload
- memory failure.



Picture may not show the actual product due to presence or absence of optional items



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Soundproof canopy

Noise level achieved : 75 ± 3 dB(A) @ 7 m measured in open space

- Sturdy unit construction in electrowelded steel sheet
- Sound absorbing lining of unalterable and adequately thick materials
- Ventilation silencers made up of sound-absorbing baffles
- Recessed knobs with lock
- Sealing strip on the door shutters ensure an excellent acoustic and water proofing;
- Hinges fastened with screws
- Hinged window for electric board, made up of safety glass, internal glass holding frame, outer boarder seal
- Appropriate paintings for indoor and outdoor installation and finishing with RAL epoxy painting
- Rainproof gratings on the ventilation openings
- Exhaust silencers



Approx overall dimensions and weight

L (cm)	W (cm)	H (cm)	Weight (Kg)
250	100	175	1020

Trailer for slow towing

SINGLE AXLE TRAILER with 2 wheels positioned at the sides.

Fix rigid DRAW BAR complete with towing eye suitable for standard balls ($\varnothing = 50$ mm)

Front STABILIZER, adjustable in height



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Approx overall dimensions and weight

L (cm)	(W) (cm)	H (cm)	Weight (Kg)

Technical data are not binding.
They may be changed for technical improvements without prior notice