



DIESEL GENSET MODEL 750 kVA



Optional equipment and finishing shown. Standard may vary.

Rating	750 kVA / 600 kW _e
Voltage	415 Volts
Frequency	50 Hz
Speed	1500 RPM

PRODUCT HIGHLIGHTS

OJUS Diesel Gen Set Package

- Designed to meet ISO 8528 standards
- Reliable performance in harsh environments
- Minimal downtime for uninterrupted power supply
- Rigid base frame for enhanced durability
- Anti-vibration mounts for smooth operation
- Rigorous in-house testing ensures consistent, trouble-free performance
- Tested with advanced PLC-based resistive load bank

Engine Features

- Cooling system rated for 50°C ambient conditions
- Rugged cast iron cylinder block reduces vibration and noise
- Induction-hardened forged steel crankshaft for extended life
- Integrated full-flow oil filter and lube oil cooler for optimal engine temperature
- Cast iron dry liners and aluminum alloy pistons with performance piston rings
- High power-to-weight ratio for cost-effective operation
- Heat-shielded air intake, exhaust manifold, and turbocharger
- HPCR pump with ECU for optimized power and fuel efficiency
- Electronic governing for precise control
- Fast load response
- Stable frequency under varying loads
- Low fuel and oil consumption
- Compliant with ISO 3046-1/1 and ISO 15550 standards

Alternator Features

- Brushless, screen-protected, self-excited alternator compliant with BS:5000 / IEC 60034-1
- High motor starting capability
- Consistent efficiency across varying load conditions
- Compact build with sealed bearings for extended life and reduced maintenance
- Optimized for compatibility with engine performance

APPLICATION DATA

► Engine

Engine Make	Baudouin, India
Engine Model	6M33G4D4/5
Distribution	4 Strokes
Aspiration	Turbocharged
No. of Cylinders	6
Type of Construction	In line
Displacement	19.6 L
Bore / Stroke	150x185 mm
Mean Piston Speed	9.25 m/s
Compression ratio	15:1
Gross Engine Power @ 100% PRP	660 kWm/885 bhp
Gross Engine Power @ 110%	725 kWm/972 bhp
Rated Speed	1500 RPM
Frequency	50 Hz

► Cooling System

Method of Cooling	Radiator
Coolant Capacity	159L
Radiator Fan Power	23.1kW
Thermostat Operating Range	80 / 92 °C
Coolant Alarm (Shutdown) Temperature	108 °C

► Fuel System

Governor	Electronic (ECU)
Governing Class	G3 as per ISO:8528-5
Fuel Injection type	High Pressure Common Rail (HPCR)
Recommended Fuel	IS 1460/ BS2869 Part1 Class A1

Fuel Consumption: L/hr @ Specific Gravity 850 gms/Litre

100% Load	149.0
75% Load	117.0

*Note: Fuel Data Confirms to ISO 3046 with +5% tolerance

► Lubrication System

Recommended Lube Oil	15W 40 CK4
Lube Oil System Capacity	61L
Lube Oil Consumption	<0.3 % of FC

► Exhaust System

After Treatment System	Available
Location	In Front of Radiator
Max Back Pressure Total System	7.5 kPa
Exhaust outlet pipe size (min)	200mm
Exhaust Gas Temperature	550°C
DEF Tank Capacity	2 x 90 L

► Induction System

Air Filter Type	Dry
Air Intake Restriction (Dirty element)	6.5 kPa

► Electrical System

Electrical System Voltage	24 V DC
Starter Motor Power	8.5 kW
Battery Size	2x12V, 150 Ah

► Alternator

Make***	Stamford
Frame	HCI 634W
Power Factor	0.8
No. of Phase	3
Frequency	50 Hz
Rated Voltage (L-L)	415 V
Rated Current	1042.5 Amps
Voltage Regulation	±1%
Insulation System	H Class
Temperature Rise Limit	H Class
Winding Pitch	2/3
Over Load	10 % Over Load for 1 hour once in 12 hours
Waveform Distortion	No-Load < 1.5% NDBLL < 5%
Design Ambient for Alternator	40 °C
Altitude	1000 m
Protection	IP23
Cooling	Air Cooled
Air flow	1.614 m3/sec
Coupling	Single bearing
Maximum Over Speed	1650 RPM
Stator Winding	Double layer concentric
Control System	Separately Excited
Excitation System	PMG
AVR Type	Analogue
AVR Model	MX 321
Performance: Efficiency @0.8 p.f	

100%	94.70%
75%	94.90%

Short Circuit Ratio	0.49
Xd Dir Axis Reactance	2.06
X'd Dir Axis Transient Reactance	0.15
X''d Dir Axis Sub Transient Reactance	0.12
Xq Quad Axis Reactance	1.65
X''q Quad Axis Subtransient Reactance	0.26
Xl Leakage Reactance	0.06
X2 Negative Sequence Reactance	0.06
X0 Zero Sequence Reactance	0.01

***Alternator Options available with CG & Leroy Somer

DG CONTROL PANEL

Operating Features

- Microprocessor-based digital controller
- Accurate LCD display
- Local and remote Start/Stop capability
- Generator breaker control
- User-friendly fascia for easy accessibility
- Supports Manual, Auto, and AMF modes
- AMF enabled with mains fail signal input

Metering

► Engine Parameters

- Engine speed
- Lube oil pressure
- Coolant temperature
- Engine running hours
- Engine battery voltage
- Running status
- Fuel level (%)
- Event log with date & time

► Electrical Parameters

- Generator Voltage (Ph-Ph, Ph-N, RYB)
- Generator Current
- Generator Apparent Power (kVA)
- Generator Active Power (kW)
- Generator Reactive Power (kVAr)
- Power Factor
- Frequency
- Cumulative Power Consumption (kWh, kVAh, kVArh)
- Control supply voltage

Protection

► Engine

- High water temperature
- Low oil pressure
- Low fuel level
- Over speed
- Engine fail to start

► Electrical

- Under/over voltage (ANSI-27/59)
- Under/over frequency (ANSI-81L/81H)
- Over current (ANSI-51)
- Control supply undervoltage
- Phase reversal
- Unbalanced load

Controller

- Make: DEIF, Denmark
- Model: SGC 420 MK II
- Suitable for AMF gensets with CANbus engines or electronic governors

► Controller Features

- Backlit full-graphics LCD with user-friendly interface
- Battery monitoring & reverse protection
- 7/9 configurable analogue/digital inputs
- Auto, Manual & Remote start/stop
- Supports island operation
- Automatic mains failure detection
- CANbus engine interface
- Logs up to 100 recent events
- PC configuration via USB or RS485
- DC battery input range: 8-32V
- Operating temperature: -20 to 65°C
- IP65 protection with gasket
- LCD alarm indication
- Power save mode
- 7 configurable digital output

► Electrical Specification

- Voltage range: Nominal 12/24V DC
- Cranking drop-out period: 50 ms
- Max reverse voltage protection: -32V DC
- Battery voltage accuracy: $\pm 1\%$ full scale
- Resolution: 0.1V
- Max current consumption: ~ 200 mA
- Accuracy: $\pm 1\%$ full scale

► Environmental Specification

- Operating temp: -20 to 65°C (IEC 60068-2-1,2)
- Vibration: 2G (X, Y, Z axes), 8-500Hz (IEC 60068-2-6)
- Shock: 15g for 11 ms (IEC 60068-2-27)
- Humidity: 0-95% RH (IEC 60068-2-78)
- IP65 protection with gasket (IEC 60529)
- EMI/EMC: IEC 61000-6-2, 4 compliant

► Approvals

- CE Compliant
- UL/cUL Recognized to UL/ULC6200:2019 (1st edition)



STANDARD SCOPE OF SUPPLY

- Water-cooled diesel engine
- Engine-driven radiator
- Electric starter with charging alternator
- Electronic governor
- Microprocessor-based genset controller
- Dry-type air filter
- Single-bearing IP23 alternator
- Base frame with anti-vibration mounts
- Flexible fuel lines and lube oil drain pump
- Engine-mounted fuel water separator filter
- Exhaust outlet with flexible and flanged fittings
- DG control panel
- Battery, battery leads & battery stand
- Day fuel tank with high/low level switch
- First fill lube oil
- First fill coolant
- 1 set of documents

OPTIONAL SUPPLY

► Engine

- Coolant heater
- Oversize batteries
- Extra fuel pre-filter water separator

► Alternator

- Permanent Magnet Generator (PMG)
- Space heater, RTD & BTD sensor
- AVR upgrade (3-phase sensing)

► Cooling System

- Air inlet filters
- Heat exchanger
- Remote radiator

► General

- Synchronization module
- Isolator panel
- Automatic transfer switch
- Manual/Automatic fuel transfer pump

OUTPUT RATING & DEFINITION

DG Set Rating @ 415V - 50 Hz:

750 kVA | 600 kW

Note: Ratings based on 0.8 power factor.

Definition

Prime Power: Suitable for varying electrical load for unlimited hours. Defined by ISO 8528 (PRP). A 10% overload is allowed as per ISO 3046.

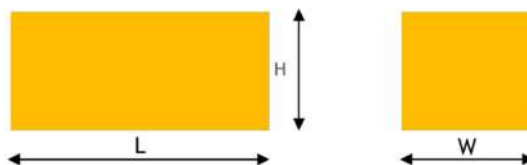
SALIENT FEATURES OF OJUS GENERATORS

- Powered by Baudouin engines, globally recognized for reliability
- Global technology available in India
- High efficiency across DG set range
- Advanced microprocessor-based control panels
- AMF, Auto, and Manual operation support
- Factory load tested with PLC-based resistive load bank
- Experienced sales and service team
- Built to withstand demanding environmental conditions
- Designed for 24x7 support
- Strong focus on fast response and customer service

DIMENSIONS & WEIGHT

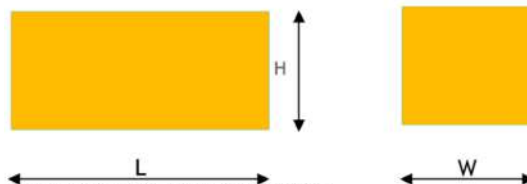
► Open Set

Length = L	mm
Width = W	mm
Height = H	mm
Weight, Dry	kg
Day Fuel tank (Litres)	



► Acoustic Set

Length = L	mm	7200
Width = W	mm	2200
Height = H	mm	3395
Weight, Dry	kg	8800
Day Fuel tank (Litres)		990



Note: Dimensions & weights are for reference only.

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GENERAL INFORMATION

Documentation

Includes operation, maintenance and wiring diagrams

Warranty

Refer to the warranty policy

