



DIESEL GENERATOR SET

Durable | Robust | Built to Last

6M12 ENGINE SERIES
250 kVA

CPCB IV+ EMISSION COMPLIANT

DESIGNED IN FRANCE **MADE IN INDIA**

www.perfecthouseltd.in

Unique Advantages Of Perfect Baudouin DG Set

- French technology with make in India product.
- Flexible & creative customized solutions to meet customer needs,
- Single window solution -3s (sale-service- spare parts) erection, installation
- Compliant with Current CPCB IV+ norms
- Cast iron cylinder block with rugged body construction designed to minimize vibrations
- Hardened steel forged crankshaft with induction hardening
- Cast iron wet liners, lube oil cooled aluminum alloy pistons with high performance piston rings
- Separate cast iron cylinders heads with 4 valves for efficiency and ease of maintenance
- Cast iron centrifugal freshwater pump
- Warranty: Two Years or 5000 Hours after commissioning
- Full flow multilevel type oil filters along with electrical pump to pre-lubricate engine, reduce friction and better start-ability
- Multilevel fuel filter with water separator to protect engine
- Exhaust manifold and turbo charger provided with shield to isolate heat, More than 50% block loading capacity
- 24/7 pan India service support, Toll Free No. 1800 88 96498
- ISO 9001, 14001 and OHSAS 18001 certified

Standard Scope Comprising

Diesel Engine/ AC Generator/ Base frame/ Standard Control Panel/ Radiator/ Silencer/
Battery & Battery Cable/ AVMs/ First Fill of Lube Oil/ First fill of Coolant/ DG Set Controller/ Fuel Tank/DEF Tank/ATS Module
Wiring Harness/ Sensors

One Stop Solution (Optional)

Customised Power Solutions, Installation, Commissioning, Operations Contract, Amc/ Camc , Renting Power, Hybrid Solution, Electric Board
Approval, Electrical Options Amf/ Auto Synchronising Panel



Controller: DEIF SGC 420

KEY FEATURS OF DEIF SGC 420 CONTROLLER

- LCD display
- True RMS Voltage
- Current and Power monitoring
- USB Communications
- Engine parameter monitoring.
- Fully configurable inputs for use as alarms or a range of different functions.
- Engine ECU interface to electronic engines
- The DEIF smart PC Software allows
- Alteration of selected operational sequences,
- Timers, alarms and operational sequences.
- **Operating Temperature:** -30 °C +70 °C (-22 °F +158 °F)
- **Operating voltage:** 8 V to 32 V DC
- **COMMUNICATION PORTS :**
USB Port: Type B USB 2.0 For connection to PC
- Configurable digital inputs/output
- Generator running hours counter
- Three phase sensing
- Generator Power Monitoring like, Kilo watts / KV/Amp / Ar / Power factor
- Generator Protections like, Over load, Over voltage , Low Voltage, Single phasing
- Engine Protection like, Low RPM, High RPM, Low Lube oil , High Temperature
- Event Log
- Generator monitoring like, Battery Voltage, Engine run time scheduler ,
- Maintenance Alarm
- Automatic transfers between Generator and utility (Mains) transfer facility is available
- Remote Start / stop facility
- IP42 (front of module when installed into the control panel WITHOUT being sealed to the panel)
- IP65 (front of module when installed into the control panel with the optional

250 kVA DG SET TECHNICAL SPECIFICATIONS

Engine	
Engine Make	Baudouin, India
Engine Model	6M12G6D4/5
Distribution	4 Strokes
Aspiration	Turbocharged
No. of Cylinders	6
Type of Construction	In line
Displacement	7.47 L
Bore / Stroke	108x136 mm
Mean Piston Speed	6.8 m/s
Compression ratio	17.5:1
Gross Engine Power @ 100% PRP	235 kWm/315 bhp
Gross Engine Power @ 110%	264 kWm/348.6 bhp
Rated Speed	1500 RPM
Frequency	50 Hz

Cooling System	
Method of cooling	Radiator
Coolant	Compleat EG 50:50

DEF System	
DEF	As per ISO 22241

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 Tank Capacity	500 L

Lubrication System	
Recommended Lube Oil	CK4 SAE 15W-40
Lube Oil System Capacity	24 L
Lube Oil Consumption	< 0.2 % of FC

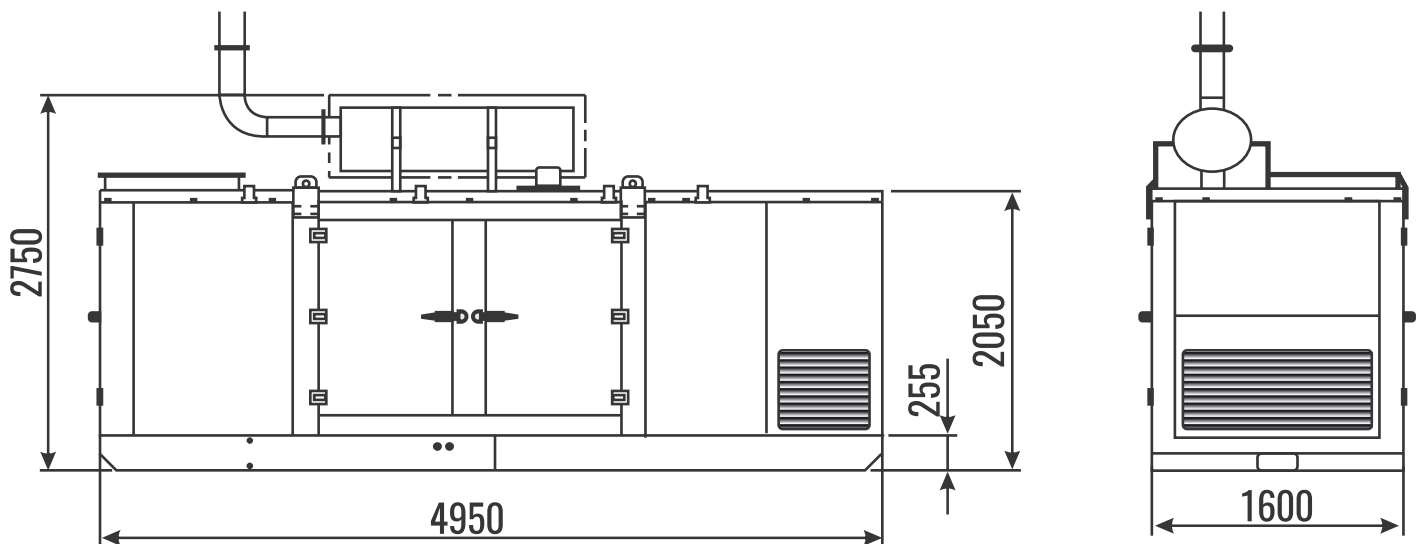
Exhaust System	
Silencer Type	Residential-grade
Number of Silencers	1 No.
Exhaust Outlet Pipe Size (min)	100 mm
Exhaust Gas Temperature	≤ 600 °C

Induction System	
Air Filter Type	Paper Element
Air Intake Restriction (Dirty element)	6.0 kPa

Electrical System	
Electrical System Voltage	24 V DC
Starter Motor Power	7.5 kW
Battery Size	2x12V, 150 Ah

Alternator	
Make***	Stamford
Frame	UCDI274K
Power Factor	0.8
No. of Phase	3
Frequency	50 Hz
Rated Voltage (L-L)	415 V
Rated Current	348 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%
Temperature Ambient	40 °C
Altitude	1000 m
Protection	IP23
Cooling	Air Cooled
Air flow	0.58 m3/sec
Coupling	Single bearing
Maximum Over Speed	1650 RPM
Stator Winding	Double layer concentric
Control System	—
Excitation System	Self excited
AVR Type	Analogue
AVR Model	Sx460
Performance: Efficiency @0.8 p.f	
1	92.80%
0.75	93.40%
Short Circuit Ratio	0.422
Xd Dir Axis Reactance	2.369
X'd Dir Axis Transient Reactance	0.111
X''d Dir Axis Sub Transient Reactance	0.072
Xq Quad Axis Reactance	1.059
X''q Quad Axis Subtransient Reactance	0.127
Xl Leakage Reactance	0.056
X2 Negative Sequence Reactance	0.1
X0 Zero Sequence Reactance	0.019
***Alternator Options available with CG & Leroy Somer.	

Dimensions and Weight



Overall Size (L x W x H): 4950x1600x2050mm

Weight (Dry, Max): 4200 Kg

NOTE: Drawing provided is for reference only and should not be used for planning installation. Please contact the Company or latest updated details. All the data is as per respective manufacturers' specification. PERFECT reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

Disclaimer: Due to continues product improvements, specifications are subject to change without prior notice.



Perfect House Pvt. Ltd.

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Plot no. J-2/5, Additional MIDC, Satara -415004

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