

## I2M33 - Power Generation Application

1000 kW<sub>e</sub>, 1250 kVA  
1200 kW<sub>e</sub>, 1500 kVA



For over 100 years, Moteurs Baudouin have been manufacturing the highest quality engines for marine, power generation and a host of other applications. The continuous need to provide reliable and durable engines for land-based power generation, and the high-seas have led to BAUDOUIIN being the preferred partner by customers, successfully serving this market since 1918. The Baudouin range of G Drive engines are available from 15 kVA to 2500 kVA and are manufactured, distributed and serviced by SHIG India based at Pune, Maharashtra.

Baudouin generating sets are widely used across the sectors like commercial & residential realty, infrastructure (Airports/Metros/Roads/Bridges/Tunnels), hospitality, shopping malls, convention centre, IT/ITES & Datacentre applications..

### Engine features :

- Cast iron cylinder block with rugged body construction designed to minimize vibrations and low noise level
- Hardened steel forged crankshaft with induction hardening.
- Full flow duplex type oil filters along with lube oil cooling system to maintain optimum temperature
- Cast iron dry liners, lube oil cooled aluminium alloy pistons with high performance piston rings.
- High power to weight ratio with low life cycle cost
- Air intake, exhaust manifold and turbocharger provided with shield to isolate heat
- HPCR pump with ECU control providing efficient performance in terms of power & fuel consumption
- Full flow multilevel type oil filters along with electric pump to pre-lubricate engine and reduce friction and better start-ability
- Fuel system with in-line injection pump and electronic governing
- Three level filter with integrated electric fuel pump and water separation filter

## Engine basic data

Engine model	12M33D1210E200	12M33G1650/5
Suitable kVA rating	1250	1500
Gross engine power (kWm) / Engine speed (rpm)	1210 / 1500	1450/1500
Bore x stroke (mm)	150 x 185	
Displacement (L)	39.2	
No. of cylinders	12 - V	
Aspiration	Turbocharged-Aftercooled	
Compression Ratio	15 : 1	
<b>Performance data</b>		
Load factor	Fuel Consumption litres/hr	
75%	187.2	228.9
100%	251.6	302
<b>Lubrication system</b>		
Total lube oil capacity (L)	155	
Lube oil consumption and fuel consumption ratio	<0.3%	
Recommended lube oil specification	CI4+15W40	
<b>Fuel system</b>		
Injection pump type	Mechanical	HPCR
Governor method	Electronic	ECU
Governing Class	G2	G3
<b>Electrical system</b>		
Starting system voltage	24 V DC	
Recommended battery capacity (Ah)	180 - 200	
<b>Cooling system</b>		
Total coolant capacity (L)	240	303
Recommended coolant specification	50:50 Ethylene glycol premix	
<b>Dimensions and weight (Power Pack)</b>		
Length (mm)	3487	3482
Width (mm)	2192	2192
Height (mm)	2246	2246
Weight (kg)	4395	4405

## Power rating definition and special notes :

- Prime Power (PRP): Applicable for supplying power for varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528
- Fuel consumption data is based on diesel with specific gravity of 0.85 and conforming to IS: 1460. Fuel consumption tolerance is +5%
- Conformance Standards: IS/IEC 60034-1, IS 1460, ISO 8528, ISO 3046, IS 13018, ISO 9001

Specification are subject to change due to continuous improvement and are for reference only.

**SHIG INDIA**  
Engineering your power

### Shandong Heavy Industry India Pvt Ltd

Survey No.280,281 Village Maan, Taluka Mulshi, Hinjewadi Phase II,  
Pune - 411057  
Phone: +91 020 67921100 Website: www.shigindia.com  
E -mail: info@shigindia.com

Toll Free No.  
1800 266 2338

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