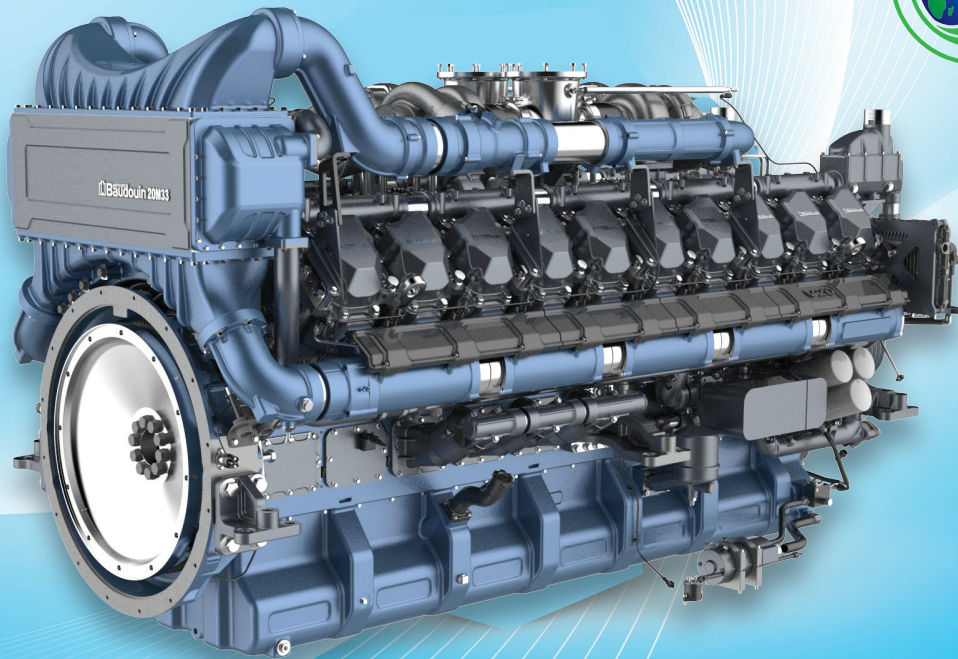


## 20M33 - Power Generation Application

1800 kW<sub>e</sub>, 2250 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

## Engine basic data

|  |                          |
|--|--------------------------|
| Engine Model                               | 20M33G2500/5             |
| Suitable kVA rating                        | 2250                     |
| Max Engine Power (kWm) /Engine Speed (rpm) | 2210 / 1500              |
| Bore x stroke (mm)                         | 150 X 185                |
| Displacement (L)                           | 65.4                     |
| No. of cylinders                           | 20                       |
| Aspiration                                 | Turbocharged-Aftercooled |
| Compression Ratio                          | 15:1                     |

## Performance data

|                    |       |
|--------------------|-------|
| Load factor        |       |
| 75% with Radiator  | 332   |
| 100% with Radiator | 425.1 |
| 75% with HE        | 319   |
| 100% with HE       | 413   |

## Lubrication system

|   |           |
|---|-----------|
| Total lube oil capacity (L)                     | 240       |
| Lube oil consumption and fuel consumption ratio | <0.2%     |
| Recommended lube oil specification              | CI4+15W40 |

## Fuel system

|                     |      |
|---------------------|------|
| Injection pump type | HPCR |
| Governor method     | ECU  |
| Governing Class     | G3   |

## Electrical system

|                                   |       |
|-----------------------------------|-------|
| Starting system voltage           | 24    |
| Recommended battery capacity (Ah) | 220AH |

## Cooling system

|                                   |                              |
|-----------------------------------|------------------------------|
| Total coolant capacity (L)        | 410                          |
| Recommended coolant specification | 50:50 Ethylene glycol premix |

## Dimensions and weight (Power Pack)

|             |      |
|-------------|------|
| Length (mm) | 4611 |
| Width (mm)  | 2756 |
| Height (mm) | 2870 |
| Weight (kg) | 8075 |

## 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. Ten percent overloaded capability is available in accordance with ISO 3046 and ISO 13018.
- 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: BS5514, ISO 3046.

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

**SHIG INDIA**  
Engineering your power

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