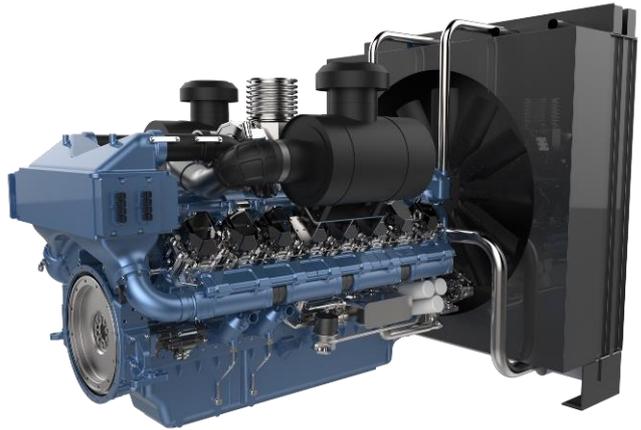


PowerKit Engine 16M33 Series

General Specifications

| | |
|-------------------|-------------|
| Bore & Stroke | 150x185 mm |
| Displacement | 52.3 L |
| Cylinder Number | 16V |
| Compression Ratio | 15:1 |
| Fuel System | Common Rail |
| Aspiration | TW |
| Emission Standard | EU Stage II |



| Engine Speed | Engine Output | | Typical Generator Output |
|--------------|---------------|--------------|--------------------------|
| | Prime(PRP) | Standby(ESP) | |
| RPM | kWm | kWm | kWe/kVA |
| 1500 | 1500 | 1650 | 1350/1688 |

| Engine Speed | Engine Output | | Typical Generator Output |
|--------------|---------------|--------------|--------------------------|
| | Prime(PRP) | Standby(ESP) | |
| RPM | kWm | kWm | kWe/kVA |
| 1800 | 1625 | 1785 | 1450/1812 |

Standard Equipment

Engine and block

- Cast iron cylinder block with inspection door per cylinder
- Cast iron cylinder liners, wet type and replaceable valves guides and seats
- Separate cast iron cylinder heads equipped with 4 valves
- Hardened steel forged crankshaft with induction hardened journals, crankpins and radius
- Lube oil cooled light alloy pistons with high performance piston rings

Cooling system

- Two separate circuits
- High temperature circuit: thermostatically-controlled system with gear driven two coolant pump
- Low temperature circuit with belt driven one coolant pump

Lubrication system

- Full flow screwball oil filters
- Lube oil purifier with replaceable cartridge
- High temperature water cooled lube oil cooler
- Electric oil pump, pre-lubricate the engine and ensure good start ability.

Fuel system

- High pressure common rail system with one high pressure pump gear driven in the V angle of cylinder block
- Two rails mounted on the sides of the engine, double wall, under inlet manifold
- Three-level filter integrate water separation filter with electric fuel pump.

Air intake and exhaust system

- Exhaust manifold and turbocharger shield heat isolate
- The 2 compressors are feeding a single water-air intercooler, mounted over the flywheel housing, with vertical flow
- Air filter with cast iron shell installed on the cylinder head

Electrical system

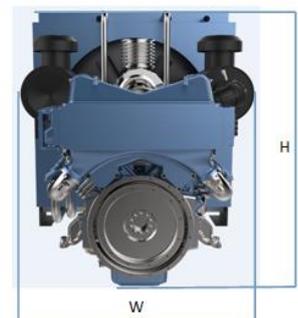
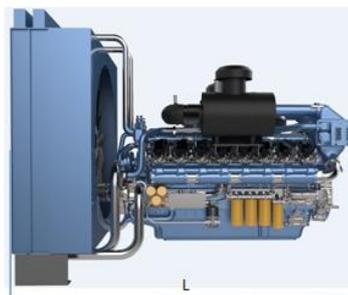
- 24V electric starter motor in parallel and battery charging alternator

Flywheel and housing

- SAE 0 flywheel housing and 18"flywheel

Dimensions and Weight

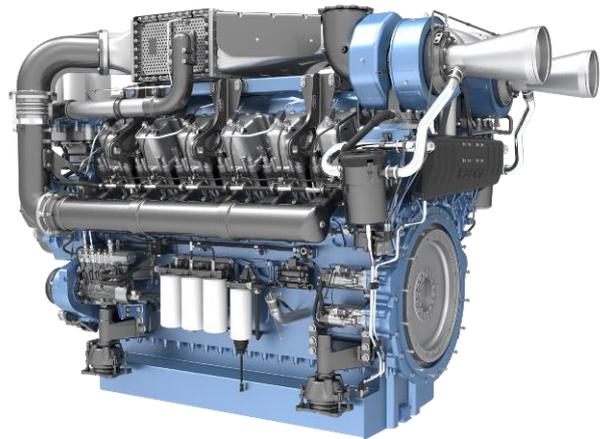
| | |
|--------|--------|
| Length | 3435mm |
| Width | 2250mm |
| Height | 2625mm |
| Weight | 4500kg |



PowerKit Engine 12M55 Series

General Specifications

| | |
|-------------------|-----------------------|
| Bore & Stroke | 180x215 mm |
| Displacement | 65.65 L |
| Cylinder Number | 12V |
| Compression Ratio | 16.5:1 |
| Fuel System | Electrical super-high |
| Aspiration | TW |
| Emission Standard | EPA Tier 4F |



| Engine Speed | Engine Output | | Typical Generator Output |
|--------------|---------------|--------------|--------------------------|
| | Prime(PRP) | Standby(ESP) | |
| RPM | kWm | kWm | kWe/kVA |
| 1500 | 1985 | 2175 | 1800/2250 |

| Engine Speed | Engine Output | | Typical Generator Output |
|--------------|---------------|--------------|--------------------------|
| | Prime(PRP) | Standby(ESP) | |
| RPM | kWm | kWm | kWe/kVA |
| 1800 | 2380 | 2610 | 2150/2688 |

Standard Equipment

Engine and block

Vermicular graphite cast iron cylinder block and cylinder head.
 Alloyed cast iron , wet cylinder liners with fire ring on the top.
 Separate cylinder head with 4 valves, top-down cooling.
 Hydraulic bolt for both the cylinder head and bearing cap.
 Hardened steel forged crankshaft with induction hardened journals, crankpins and radius
 Monoblock piston with PCJ.

Cooling system

High-temperature circuit and low-temperature circuit.
 Multiple thermostats-controlled system with gear driven coolant pump.

Lubrication system

Fin oil cooler , 5 oil filter and 1 centrifugal oil filter.
 Bypass oil and oil thermostat to keep the oil temperature steady.
 Electrical oil pre-pump, pre-lubricate the engine and ensure good starting

ability.

Fuel system

Super-high fuel supply system for more peak fire pressure.
 Pre-filter and main filters with electric fuel pump.

Air intake and exhaust system

Separate exhaust pipe with heat injected shield.
 Water-cooled , turbocharged intake air.
 2 single-stage turbochargers.

After treatment system

DOC+SCR, high Nox conversion efficiency.

Electrical system

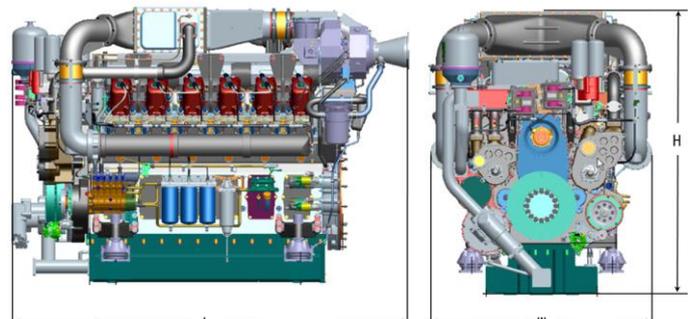
Double 24V electric starters and 1 alternator

Flywheel and housing

SAE 00 flywheel housing and 21"flywheel

Dimensions and Weight

| | |
|--------|--------|
| Length | 3314mm |
| Width | 1780mm |
| Height | 2280mm |
| Weight | 9500kg |



Manufacturer: SOCIETE INTERNATIONALE DES MOTEURS BAUDOUIN
 Address: Technoparc du Bregadan
 13260 Cassis, FRANCE
<http://www.baudouin.com>