Fact sheet

Rolls-Royce

RB211 GenSet
Power generation package

energy

Based on the highly successful RB211 turbofan aero engine, this robust unit has a proven record in a wide range of industrial applications including power generation in some of the world's environmental extremes.

- Generating set power ratings up to 36 MW
- Thermal efficiency approaching 40%
- Proven Dry Low Emission capability
- Industrial version of the world's most reliable aero engine
- Highly suitable for cogeneration and combined cycle installations
- Available for 50 or 60 Hz applications

RB211 Gas turbine driver

The RB211 is a fully modular engine, comprising of five modules, each fully interchangeable by similar factory overhauled and balanced replacements, this significantly reduces down time and increases availability.
A Dry Low Emissions (DLE) combustion system is available, and is designed to achieve NOx levels of 25 vppm on natural gas fuel over a wide power range and full ambient temperature range. The system has no loss at part power, is easily maintained and of simple rugged construction.
The power turbines are rugged two or three stage units designed specifically to match the RB211 by Rolls-Royce.

RB211 DLE technology for low environmental impact

Reliable power in remote locations

Power generation package

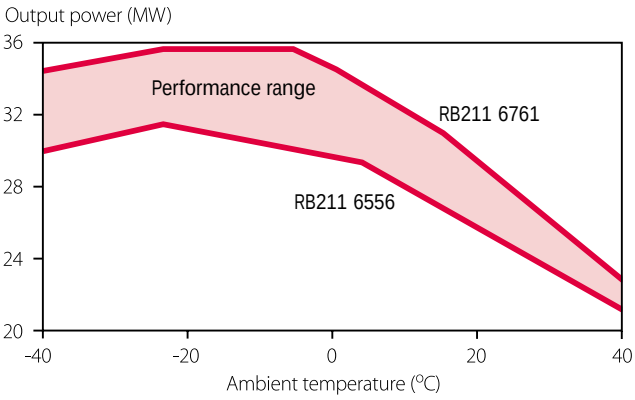
This comprises of baseplate mounted driver package and generator module, complete with air inlet and exhaust system, control system and all necessary lube oil, hydraulic oil and fuel systems to form a complete generating set. Enclosures complete with interconnecting pipework, electrical systems, fire detection and protection systems and ventilation systems can be supplied for either outdoor or indoor installations. Each can be factory tested and shipped as a self contained unit reducing on-site erection and commissioning time.

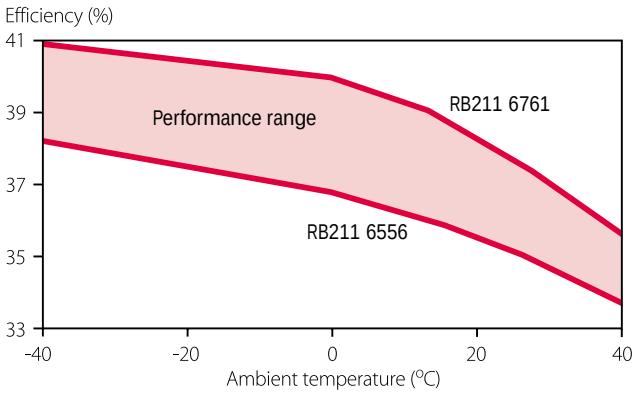
Compact efficient power generation unit

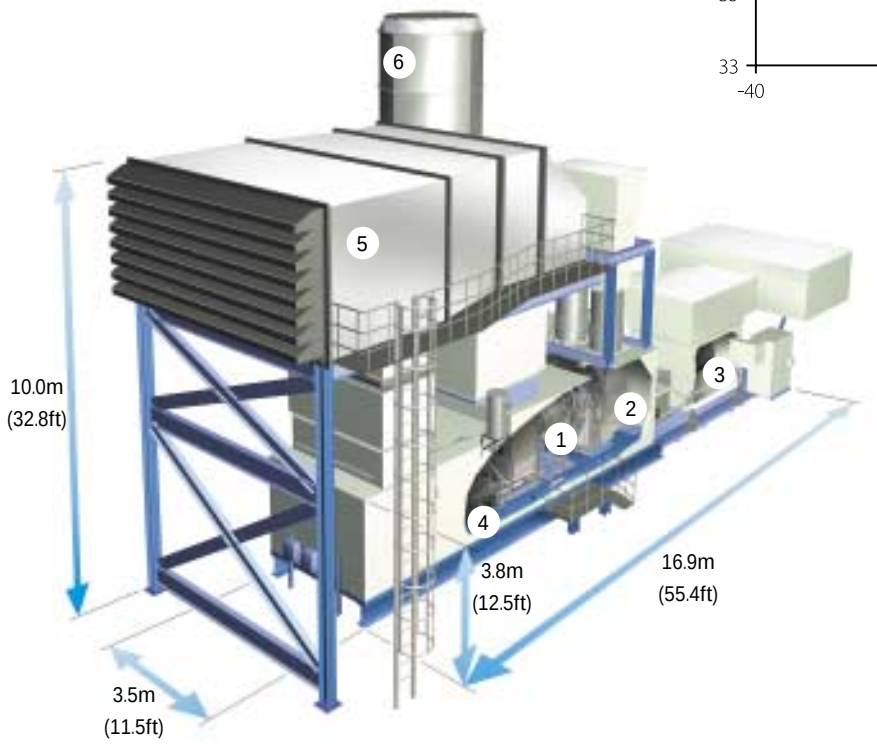
Fact sheet

RB211 GenSet Performance
(ISO conditions, no losses, gaseous fuel, DLE combustion system)

Model	RB211 6761	RB211 6762	RB211 6562	RB211 6556
Output power (kW)	31,745	29,430	28,775	25,360
Heat rate (kJ/kWh)	9,216	9,534	9,734	10,281
(Btu/kWh)	8,735	9,037	9,226	9,774
Efficiency (%)	39.1	37.8	36.2	34.1
Exhaust temperature (°C)	505	492	492	488
(°F)	941	917	917	910
Exhaust mass flow (kg/sec)	94.0	95.5	94.5	92.2
(lb/sec)	207.4	210.6	208.7	203.3
Pressure ratio	21.5	21.6	20.8	20.8







1 - Gas turbine
2 - Exhaust volute
3 - Electric generator
4 - Gas generator auxiliaries
5 - Inlet air filter
6 - Exhaust stack

Shipping weights (approx.)	kg	lb
Gas turbine skid (excluding gg)	76,125	167,825
Electric generator skid	101,000	222,665
RB211 gas generator	3,900	8,600
Overall package weight	248,500	547,820

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