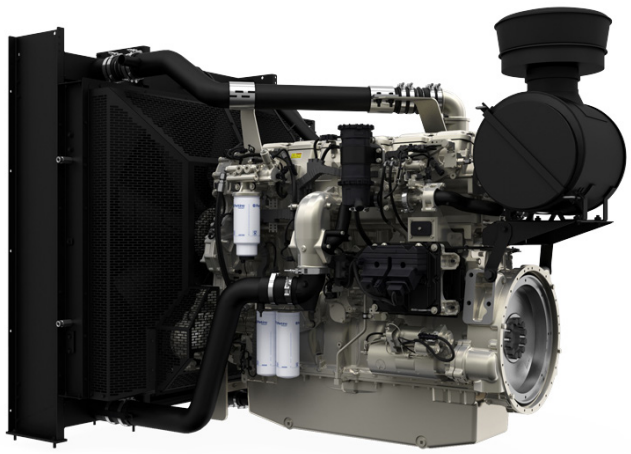
2806F-E18TAG2

Power range 1800 rpm 555 kW (engine gross power)
Emissions U.S. EPA Tier 4 Final

The Perkins® 2000 Series is a family of proven 6 cylinder 13, 15 and 18 litre diesel engines, designed to address today's uncompromising demands within the power generation industry for both prime, standby and mobile applications.

The 2806F-E18TAG2 joins Perkins expanding suite of engines for power generation that meet the most stringent emission standards. The engine and aftertreatment share a common heritage with on-highway truck and heavy duty construction engines, offering superior performance and reliability.



Features and benefits

- **Maximising productivity** by achieving ISO 8528-5 G2 performance. The 2806F-E18TAG2 provides excellent performance for mobile generator sets favoured by rental fleets. The 2806F performs seamlessly, generating power for jobsites, events, and other mobile generator set applications served by the rental industry.
- The 2806F-E18TAG2 features the latest Perkins **optimised electronic architecture**. Unlike the 2806F-E18TAG1, the 2806F-E18TAG2 features a single, engine mounted electronic control module (ECM) that simplifies wiring harnesses, eases installation, supports future diagnostics and is fully capable of integration with customers' telematics solutions.
- Mechanical electronic unit fuel injectors (MEUI) combined with carefully matched turbocharging, provide excellent fuel economy and low emissions while exhaust gas recirculation (EGR) minimises Diesel Exhaust Fluid (DEF) consumption, ensuring **low daily operating costs**. Robust design and proven durability ensure years of reliable performance.
- Exceptional power to weight ratio and compact size provide optimum power density. The aftertreatment, **proven over millions of hours use in demanding off-road applications**, operates seamlessly without any intervention from the operator while reducing emissions significantly. The result is clean and efficient power.
- The 2806F-E18TAG2's lineage stems from rugged, off-road equipment and industrial applications. Its **robustness and durability** are time proven. A single engine can tackle jobs requiring up to 500 ekw (625 kVA) or two units can be combined to create a mobile 1 MWe (1,250 kVA) source of power for large, demanding jobs.
- **Perkins global product support** is designed to enhance the customer experience of owning a Perkins powered machine. We deliver this through the quality of our distribution network, extensive global coverage and a range of Perkins supported OEM collaboration opportunities.

Perkins®

2806F-E18TAG2

Power range 1800 rpm 555 kW (engine gross power)
Emissions U.S. EPA Tier 4 Final

Specification

	Model
	2806F-E18TAG2
Configuration	Vertical in-line
Cylinders	6
Displacement, litres (in^3)	18.1 (1,106)
Aspiration	Turbocharged and air-to-air chargecooled
Bore and stroke, mm (in)	145 × 183 (5.7 × 7.2)
Combustion system	Electronic unit injection
Compression ratio	16:1
Exhaust aftertreatment	DOC/DPF/SCR
Rotation (viewed from flywheel)	Anti-clockwise, viewed on flywheel
Total lubricating oil capacity, litres (US gal)	74 (19.5)
Cooling system	Watercooled
Total coolant capacity, litres (US gal)	74 (19.5)

Technical Information

Model	Speed	Type of operation	Engine Power		Typical Generator Output* (Net)		Prime Fuel Consumption				
			Gross	Net			100%	75%	50%	25%	10%
	rpm		kW (hp)	kW (hp)	kVA	kWe	g/kWh	g/kWh	g/kWh	g/kWh	g/kWh
2806F-E18TAG2	1800	Prime	555 (744)	529 (709)	625	500	212	212	219	243	308

*Generator powers are typical and based on typical alternator efficiencies and a power factor (cos θ) or 0.8.

Perkins®

2806F-E18TAG2

Power range 1800 rpm 555 kW (engine gross power)
Emissions U.S. EPA Tier 4 Final

Standard Equipment

	Model
	2806F-E18TAG2
Electro unit or ElectropaK	ElectropaK
Radiator fitted	Ship loose
Fuel filter, engine mounted	✓
Water separator	N/A
Fuel priming pump (manual/electric)	Electric
Fuel cooler (not required for most installations)	N/A
Air filter, engine mounted	✓
Engine ECM, engine mounted	✓
Wiring harness to ECM	✓
Wiring harness (all connectors to single customer interface)	✓
Starter motor	✓
Battery charging alternator	✓
Flywheel housing	✓
Flywheel	✓
Fan	✓
Fan guard	✓
Temperature and oil pressure for automatic stop/alarm configurable	✓

Aftertreatment

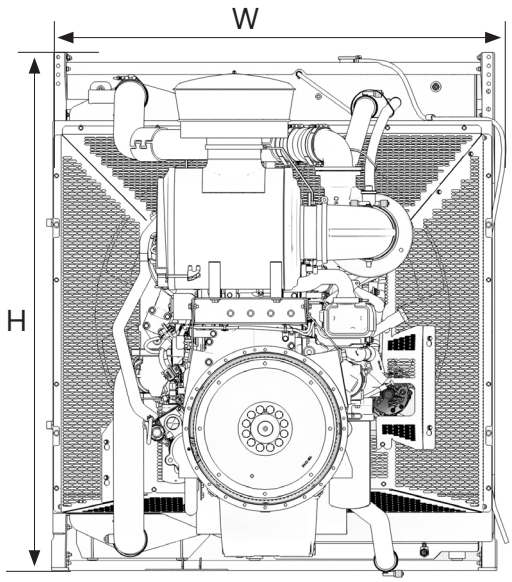
	Model
	2806F-E18TAG2
Aftertreatment configuration	Ship loose
Aftertreatment type	DOC-DPF-SCR
Exhaust flexible pipe (engine to aftertreatment)	✓
DEF tank	✓
Heated DEF lines	✓

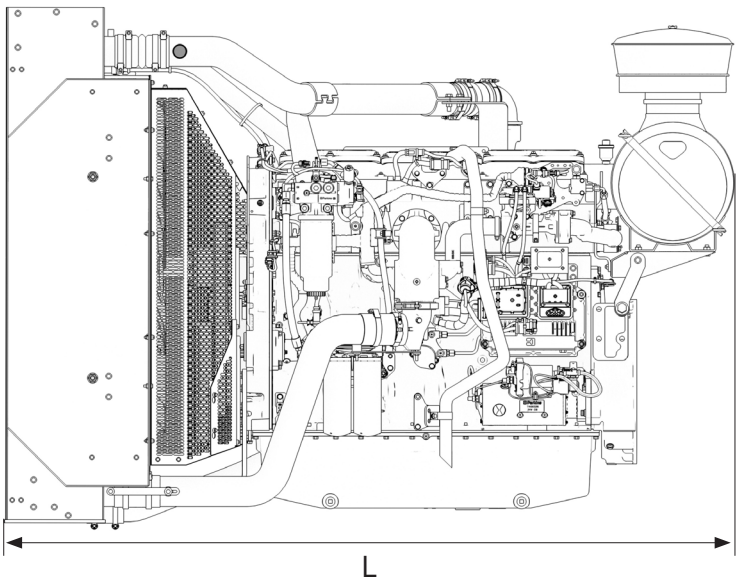
Perkins®

2806F-E18TAG2

Power range 1800 rpm 555 kW (engine gross power)
Emissions U.S. EPA Tier 4 Final

Engine Package Weights and Dimensions





	Model
	2806F-E18TAG2
Configuration	ElectropaK
Dimensions, H x L x W, mm (in)	1741 × 2458 × 1520 (69 × 97 × 60)
Dry weight, kg (lb)	2065 (4552)

Prime power: Unlimited hours usage with an average load factor of 70 percent of the published prime power over each 24 hour period. No overload is permitted.

Data Centre Power (DCP): Power available for variable or continuous electrical loads in a data centre application. Up to 100 percent load factor of the published DCP power is permitted for unlimited time. No overload is permitted. DCP power definition relies on ISO8528-1 2018 standard to be followed by generator set manufacturer, and will support Tier I to Tier IV classifications of data centres as per UPTIME institute guidelines.

Perkins®