

1300 Series 1306C-E87TAG4 Diesel Engine – Electropak[®]

217 kWm 1500 rev/min
235 kWm 1800 rev/min

The Perkins 1300 Series family of Electropak engines has become renowned throughout the power generation industry for the engines' superior performance and reliability.

The 1306C-E87TAG4 engine is a turbocharged and air-to-air charge cooled unit, featuring hydraulically-actuated electronically controlled unit injectors (HEUI) with 'full authority' electronic engine management providing reliable, quiet, economic operation supported by the quick starting, fast response and close control demanded by the electrical power generation market.

High performance productive power

- Hydraulically actuated Electronically controlled Unit Injectors – high-pressure fuel injection gives constant, reliable high performance
- Constant electronic engine management and monitoring enable precise fuel metering and injection timing to ensure reliable low temperature starting, superb economy with performance and very close governing

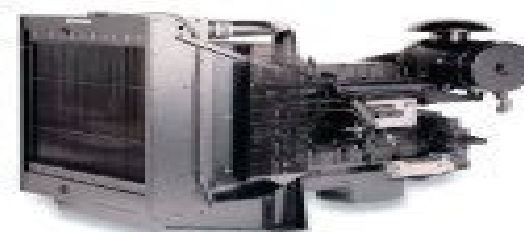
Quiet, clean power

- A rigid structure minimizes noise transmission and helical cut gears provide quiet power transfer to auxiliaries
- Forced induction and electronic fuel injection control combine to reduce combustion noise while electronically optimised fuel/air mixing ensures complete combustion resulting in virtually smoke free operation with emissions capability matching current and future emissions legislation

Durable power

- A fully balanced induction-hardened steel crankshaft gives smooth performance with minimised bearing loads

- Oil cooled pistons with keystone top and second rings give longer life while positive rotational valves and roller cam followers reduce wear on valve seats, tappets and cam lobes



Reliable power

- Cylinder head coolant is directed to valve bridges and injectors and lubricating oil is cooled in a high efficiency oil cooler, both features enhancing engine reliability
- Electronic safety shutdown option protects the engine while event and fault warning codes protect operations

Easy maintenance

- Electronic diagnostics help to keep the engine at its productive best while enabling the operator to plan maintenance. Oil and filter changes at 450 hours reduce down time
- All engines are supported by the Perkins worldwide network of distributors and dealers

Certified against the requirements of EU2007 (EU97/68/EC Stage II) legislation for non-road mobile machinery, powered by constant speed engines

Engine Speed rev/min	Type of Operation	Typical Generator Output (kW)		Engine Power			
				Gross		Net	
		kVA	kVAe	kWm	bhp	kWm	bhp
1500 Rating Code M429	Baseload Power	205	165	185	248	178	241
	Prime Power	228	182	205	273	198	265
	Standby (maximum)	250	200	224	300	217	291
1800 Rating Code M432	Baseload Power	223	178	200	269	194	261
	Prime Power	245	196	220	295	213	286
	Standby (maximum)	270	216	242	325	235	315

1500/1800 rev/min available ratings are offered for stand-alone non-load shedding gen. set applications. Rating code M435 applies.

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528-1, ISO 3046-1 types, ISO 9001-1, CEI 007-1. Cooling may be required for conditions outside these.

Consult Perkins Engines Company Limited.

Generator power set total and are based on an efficiency of 80% and a power factor of 0.8. Performance tolerance is ± 1%. Full specification: ISO 22801 Part 2: 1998 Class A2 or ASTM D4753 C2. Lubricating oil: 15W40 or ACEA/ECE or API CG4.

Rating Definitions:

Baseload Power: Power available for continuous full load operation. Overload of 10% permitted for 1 hour in every 12 hours' operation. Prime Power: Power available at variable load with a load factor not exceeding 80% of the prime power rating. Overload of 10% is permitted for 1 hour in every 12 hours' operation. Standby (maximum): Power available at variable load in the event of a main power network failure up to a maximum of 500 hours per year of which up to 300 hours may be continuous. No overload is permitted.

Photographs are for illustrative purposes only and may not reflect true specification.

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