

2800 Series 2806A-E18TAG2

609 kWm at 1500 rpm

The Perkins 2800 Series is a family of well-proven 6 cylinder 16 and 18 litre in-line diesel engines, designed to address today's uncompromising demands within the power generation industry with particular aim at the standby market sector. Developed from a proven heavy-duty industrial base, the engine offers superior performance and reliability.

The 2806A-E18TAG2 is a turbocharged and air-to-air charge cooled, 6 cylinder diesel engine of 18 litres capacity. Its premium features provide economic and durable operation, low gaseous emissions and advanced overall performance and reliability.



Specification		
Number of cylinders	6 vertical in-line	
Bore and stroke	145 x 183 mm	5.7 x 7.2 in
Displacement	18.1 litres	1104 in ³
Aspiration	Turbocharged and air-to-air charge cooled	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	14.5:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	62 litres	16.4 US gal
Cooling system	Water-cooled	
Total coolant capacity	61 litres	16.1 US gal

Features and benefits

Economic power

- ▮ Mechanically operated unit fuel injectors with electronic control combined with carefully matched turbocharging give excellent fuel atomisation and combustion with optimum economy
- ▮ Low emissions result from electronic control of fuel injected

Reliable power

- ▮ Developed and tested using the latest engineering techniques and finite element analysis for high reliability, low oil usage and low wear rates
- ▮ High compression ratios also ensure clean rapid starting in all conditions
- ▮ 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 partnership options. So whether you are an end-user or an equipment manufacturer our engine expertise is essential to your success

Compact, clean and efficient power

- ▮ Exceptional power to weight ratio and compact size give optimum power density with easier installation and cost effective transportation
- ▮ Designed to provide excellent service access for ease of maintenance

Product support

- ▮ Perkins actively pursues product support excellence by ensuring our distribution network invest in their territory – strengthening relationships and providing more value to you, our customer
- ▮ Through an experienced global network of distributors and dealers, fully trained engine experts deliver total service support around the clock, 365 days a year. They have a comprehensive suite of web based tools at their fingertips covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine
- ▮ Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts and service. We give 100% reassurance that you receive the very best in terms of quality for lowest possible cost .. wherever your Perkins powered machine is operating in the world

This engine does not comply with harmonized international regulated emissions limits

Engine package weights and dimensions

Engine package weights and dimensions		
Length	2545 mm	100 in
Width	1536 mm	60.5 in
Height	1808 mm	71 in
Weight (dry)	2050 kg	4519 lb

Technical information

Air inlet

- ▮ Mounted air filter

Fuel system

- ▮ Mechanically actuated electronically controlled unit fuel injectors with full authority electronic control
- ▮ Governing to ISO 8528-5 class G2 with isochronous capability
- ▮ Replaceable 'Ecoplus' fuel filter elements with primary filter/water separator
- ▮ Fuel cooler

Lubrication system

- ▮ Wet sump with filler and dipstick
- ▮ Full-flow replaceable 'Ecoplus' filter
- ▮ Oil cooler integral with filter header

Cooling system

- ▮ Gear-driven circulating pump
- ▮ Mounted belt-driven pusher fan
- ▮ Radiator incorporating air-to-air charge cooler, (supplied loose)
- ▮ System designed for ambients up to 50°C
- ▮ Low coolant level switch

Electrical equipment

- ▮ 24 volt starter motor and 24 volt 70 amp alternator with DC output
- ▮ ECM mounted on engine with wiring looms and sensors
- ▮ 3 level engine protection system

Flywheel and housing

- ▮ High inertia flywheel to SAE J620 size 18
- ▮ SAE '0' flywheel housing

Mountings

- ▮ Front engine mounting bracket

Literature

- ▮ User's Handbook

Optional equipment

- ▮ 110 volt/240 volt immersion heater
- ▮ Additional speed sensor
- ▮ Temperature and pressure sensors for gauges
- ▮ Electric hours counter
- ▮ Air filter rain hood
- ▮ Twin starters/facility for second starter
- ▮ Tool kit
- ▮ Parts manual/Workshop manual

Speed rpm	Type of operation	Typical generator output (Net)		Engine power			
				Gross		Net	
		kVA	kWe	kWm	hp	kWm	hp
1500	Prime power	650	520	584	783	565	758
	Standby power	700	560	628	842	609	817

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS 5514/1. Derating may be required for conditions outside these; consult Perkins Engines Company Limited.

Generator powers are typical and are based on an average alternator efficiency and a power factor (cos. θ) of 0.8. Fuel specification: BS 2869: Part 2 1998 Class A2 or ASTM D975 D2. Lubricating oil: 15W40 to API CG4.

Rating definitions

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 power: Power available 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 run continuously. Load factor may be up to 100% of standby power. No overload is permitted.

Percent of prime power	Fuel consumption at 1500 rpm g/kWh	Fuel consumption at 1500 rpm l/hr
Standby power	203	143
Prime power	202	132
Baseload power	199	99
75%	198	97
50%	201	66

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