Power range 1500 rpm540-743 kWm (engine gross power)Power range 1800 rpm568-821 kWm (engine gross power)

Emissions

Fuel optimised Capable of meeting the requirements of TA luft (1986)

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

The 2806A products are developed with dual turbochargers to offer market leading power density and high performance. The high durability core engine allows low cost of ownership and flexible product range to serve both highly regulated and fuel optimised markets.



Features and benefits

- Built on a robust and successful industrial core, the 2800 series is designed to **maximise durablity and reliability**. High compression ratios also ensure class leading cold starting and low emissions result from electronic control of fuel injected. Dual turbochargers provide highly competitive performance at high altitudes.
- Exceptional power to weight ratio and compact size give allows easier installation, smaller canopy and cost effective transportation as compared to larger engines. Common engine core allows same mounting locations to lower canopy design cost whilst serving multiple markets.
- Mechanically operated unit fuel injectors with electronic control combined with carefully matched turbocharging result in low fuel consumption under all conditions resulting in lowering the cost of ownership.
- 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 quality for lowest possible cost wherever your Perkins powered machine is operating in the world. Robust engine design results in long service intervals which result in **lowest maintenance cost**.
- 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 productive life** of your engine.
- Perkins takes pride in manufacturing all products globally to the same **high quality standard**. All of our products are manufactured in world class facilities to ensure highest quality for your peace of mind.

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THE HEART OF EVERY GREAT MACHINE

Emissions	Fuel optimised
Power range 1800 rpm	568-821 kWm (engine gross power)
Power range 1500 rpm	540-743 kWm (engine gross power)

Capable of meeting the requirements of TA luft (1986)

Specification

	2806A-E18TA/TTA								
	TAG1A	TAG2	TAG3	TTAG4	TTAG5	TTAG6	TTAG7		
Configuration	ElectropaK								
Cylinders			6	vertical in-lir	ne				
Displacement, litres (in ³)				18.1 (1104)					
Aspiration		Parallel turbocharged and air-to-air chargecooled							
Bore and stroke, mm (in)	145 x 183 (5.7 x 7.2)								
Combustion system			D	irect injectic	n				
Compression ratio		14.5:1			14	1:1			
Exhaust aftertreatment				N/A					
Rotation (viewed from flywheel)			Anti-clockw	vise, viewed	on flywheel				
Total lubricating oil capacity, litres (US gal)	62 (16.4) 68 (18)								
Cooling system	Watercooled								
Total coolant capacity, litres (US gal)		61 (16.1)			110	(29)			

Technical Information

Model			Engine Power		Typical		Prime Fuel Consumption				
	Speed	Type of Operation	Gross	Net	Generator Output* (Net)		110%	100%	75%	50%	
	rpm		kWm (hp)	kWm (hp)	kVA	kWe	g/kWh	g/kWh	g/kWh	g/kWh	
	1500	Prime	540 (724)	522 (700)	600	480	201	203	199	202	
2806A-E18TAG1A	1500	Standby	593 (795)	574 (770)	660	528	201	203	199	203	
2000A-ETOTAGTA	1000	Prime	568 (762)	543 (728)	625	500	203	202	201	210	
	1800	Standby	623 (835)	598 (802)	687	550	203			210	
	1500	Prime	584 (783)	565 (758)	650	520	203	202	198	201	
		Standby	628 (842)	609 (817)	700	560					
2806A-E18TAG2	1900	Prime	568 (762)	543 (728)	625	500	202	202	201	210	
	1800	Standby	623 (835)	598 (802)	687	550	203				
	1500	Prime	540 (724)	522 (700)	600	480	107	100	204	204	
2806A-E18TAG3	1500	Standby	584 (783)	565 (758)	650	520	197	198	204		
	1900	Prime	618 (828)	592 (794)	681	545	000	200	202	010	
	1800	Standby	678 (909)	652 (874)	750	600	208	209	202	210	

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

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Emissions	Fuel optimised Capable of meeting the requirements of TA luft (1986)
Power range 1800 rpm	568-821 kWm (engine gross power)
Power range 1500 rpm	540-743 kWm (engine gross power)

Technical Information cont/d

			Engine	Engine Power		Typical		Prime Fuel Consumption				
Model	Speed	Type of Operation	Gross	Net	Generator Output* (Net)		110%	100%	75%	50%		
	rpm		kWm (hp)	kWm (hp)	kVA	kWe	g/kWh	g/kWh	g/kWh	g/kWh		
	1500	Prime	623 (835)	595 (798)	706	565	195	195	101	106		
2806A-E18TTAG4	1500	Standby	685 (919)	657 (881)	780	624	195	195	191	196		
2000A-E1011AG4	1900	Prime	720 (965)	675 (905)	802	642	206	206	198	197		
	1800	Standby	793 (1063)	748 (1003)	888	710	200			197		
	1500	Prime	676 (907)	648 (869)	770	616	202	200	192	194		
2806A-E18TTAG5		Standby	743 (996)	716 (905)	850	680						
2000A-E1011AG5	1800	Prime	720 (965)	675 (929)	802	642	206	000	198	197		
	1800	Standby	793 (1063)	748 (1003)	888	710	200	206				
	1800	Prime	716 (905)	685 (919)	813	650	000	204	106	100		
2806A-E18TTAG6		Standby	785 (1053)	754 (1011)	895	716	203		196	198		
	1800	Prime	747 (1002)	716 (905)	850	680	007	000	107	107		
2806A-E18TTAG7	1800	Standby	821 (1101)	790 (1059)	938	750	207	209	197	197		

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

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THE HEART OF EVERY GREAT MACHINE

Emissions	Fuel optimised Capable of meeting the requirements of TA luft (1986)
Power range 1800 rpm	568-821 kWm (engine gross power)
Power range 1500 rpm	540-743 kWm (engine gross power)

Standard Equipment

	2806A-E18TA/TTA								
	TAG1A	TAG2	TAG3	TTAG4	TTAG5	TTAG6	TTAG7		
Electro unit or electropaK	ElectropaK	ElectropaK	ElectropaK	ElectropaK	ElectropaK	ElectropaK	ElectropaK		
Radiator fitted	✓	✓	✓	✓	✓	✓	✓		
Fuel filter, engine mounted	✓	✓	✓	✓	✓	✓	✓		
Water separator	✓	✓	✓	✓	✓	✓	✓		
Fuel priming pump (manual/electric)	✓	✓	✓	✓	✓	✓	✓		
Fuel cooler (not required for most installations)	~	~	~	~	~	~	~		
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	✓	✓	✓	✓	✓	✓	~		
Temp and oil pressure for automatic stop/alarm configurable	~	~	~	~	~	~	~		

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Power range 1500 rpm	540-743 kWm (engine gross power)
Power range 1800 rpm	568-821 kWm (engine gross power)
Emissions	Fuel optimised Capable of meeting the requirements of TA luft (1986)

Engine Package Weights and Dimensions





	2806A-E18TA/TTA									
	TAG1A TAG2 TAG3 TTAG4 TTAG5 TTAG6 TTAG									
Configuration		ElectropaK		ElectropaK						
Dimensions, H x L x W, mm (in)	1808 x 2545 x 1536 (71 x 100 x 60) 2126 x 2538 x 1691						67)			
Dry weight, kg (lb)		2050 (4520)		2361 (5206)						

Prime power: Power available at variable load in lieu of a main power network. Overload of 10% is permitted for one hour in every 12 hours of operation.

Standby (maximum): Power available at variable load in the event of a main power network failure. No overload is permitted.

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