Power range 1500 rpm 231-302 kWm (engine gross power) Power range 1800 rpm 307-338 kWm (engine gross power)

Emissions EU Stage V, U.S. EPA Tier 4 Final

The Perkins® 1700 Series is engineered to provide class leading performance and maximise competitive advantage for our customers.

Developed on a latest generation 9.3 litre core, the 1706 offers greater capability and more flexibility to our customers from a simple plug and play product.



Features and benefits

- Maximised productivity by achieving key power nodes with clean rapid starting in all conditions whilst delivering impressive steady state and transient response. Options between EU Stage V certified products for the EU mobile genset market and U.S. EPA Tier 4 Final certified products for the US mobile genset market ensures flexibility for our customers tailored to their needs.
- Exceptional power density enables standardisation across numerous applications providing ease of integration and service accessibility. Better packaging options ship loose or engine mounted aftertreatment. Simplified aftertreatment solution compatible with switchable Stage V and Tier 4 Final solution.
- The 1700 series offers optimised fuel consumption and low oil consumption whilst meeting the Stage V and Tier 4 Final emissions standards; all delivered from a proven reliable core engine delivering low daily operating costs.

- Perkins engines are designed and developed with our customer in mind. Keeping service cost to a minimum ensures low periodic running costs.
 This is achieved through 500 hour service intervals for oil and fuel as standard under all operating conditions.
- The long productive life of our products is supported through the Perkins 12 month warranty as standard for prime power applications, and the 1500 hour or two year emissions warranty. For further peace of mind, there is also the option to purchase Extended Service Contracts through Perkins Platinum Protection. Contact your local distributor or visit www.perkins.com/en_GB/ aftermarket/perkins-platinum-protection.
- 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.



THE HEART OF EVERY GREAT MACHINE

Power range 1500 rpm 231-302 kWm (engine gross power) Power range 1800 rpm 307-338 kWm (engine gross power)

Emissions EU Stage V, U.S. EPA Tier 4 Final

Specification

	Model	
	1706J-E93TAG1	1706J-E93TAG2
Configuration	ElectropaK	
Cylinders	6 vertical in-line	
Displacement, litres (in3)	9.29 (567)	
Aspiration	Turbocharged aftercooled	
Bore and stroke, mm (in)	115 x 149 (4.5 x 5.9)	
Combustion system	Direct injection	
Compression ratio	17	
Exhaust aftertreatment	DOC/DPF/SCR/AMOX+DEF system	
Rotation (viewed from flywheel)	Anti-clockwise, viewed on flywheel	
Total lubricating oil capacity, litres (US gal)	27-30 (7-7.9)	
Cooling system	Liquid	
Total coolant capacity, litres (US gal)	37.9 (10)	

Technical information

Model Speed			Engine Power		Typical Generator Output* (Net)		Prime Fuel Consumption				
	Type of Operation	Gross	Net	110%			100%	75%	50%	25%	
	rpm		kWm (hp)	kWm (hp)	kVA	kWe	g/kWh	g/kWh	g/kWh	g/kWh	g/kWh
1706J-E93TAG1 1500	Prime	231 (310)	221 (296)	257	206	201	001	203	212	246	
	1500	Standby	254 (341)	244 (326)	284	277	201	201	203	212	240
1500 1706J-E93TAG2 1800	1500	Prime	274 (367)	265 (355)	305	244	205 203	000	200	206	234
	1500	Standby	302 (405)	293 (393)	336	269		203			
	1800	Prime	307 (412)	291 (390)	334	267	209 20	000	203	211	244
		Standby	338 (453)	321 (430)	369	296		200			

^{*}Generator powers are typical and based on typical alternator efficiencies and a power factor ($\cos \theta$) or 0.8.



THE HEART OF EVERY GREAT MACHINE

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Emissions EU Stage V, U.S. EPA Tier 4 Final

Standard equipment

	Model			
	1706J-E93TAG1	1706J-E93TAG2		
Electro unit or electropaK	ElectropaK	ElectropaK		
Radiator fitted	✓	✓		
Fuel filter, engine mounted	✓	✓		
Water separator	N/A	N/A		
Fuel priming pump (manual/electric)	Electric	Electric		
Fuel cooler	N/A	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	✓	✓		
Temp and oil pressure for automatic stop/alarm configurable	✓	√		

Aftertreatment

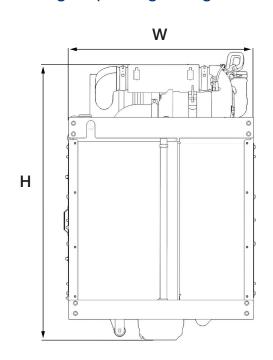
	Model		
	1706J-E93TAG1	1706J-E93TAG2	
Aftertreatment configurations	Engine Mounted Aftertreat	Engine Mounted Aftertreatment (EMAT) or ship loose	
Aftreatment type	DOC/DPF/SCR/A	DOC/DPF/SCR/AMOX+DEF system	
Size and orientation	13" CEM, horizontal or vertical options available		
DEF tanks	Standard fill, 65.6 litres or 92.6 litres options available		

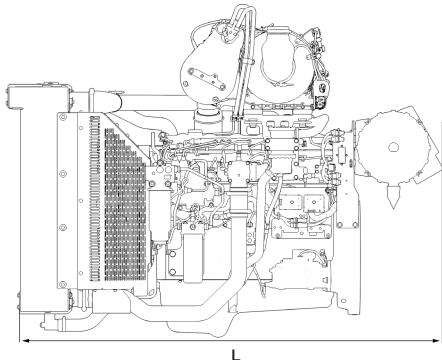


Power range 1500 rpm 231-302 kWm (engine gross power) Power range 1800 rpm 307-338 kWm (engine gross power)

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Engine package weights and dimensions





	Model			
	1706J-E93TAG1	1706J-E93TAG2		
Configuration	ElectropaK			
Dimensions, H x L x W, mm (in)	1645 x 2129 x 1045 (65 x 84 x 41)			
Dry weight, kg (lb)	1196 (2637)			

Prime Power: Power available at variable load in lieu of a main power network. Overload of 10% is permitted for 1 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.

