

# 1104C-44G/TG/TAG Electric Power Engines

**Power range 1500 rpm** 40-103 kW (engine gross power)

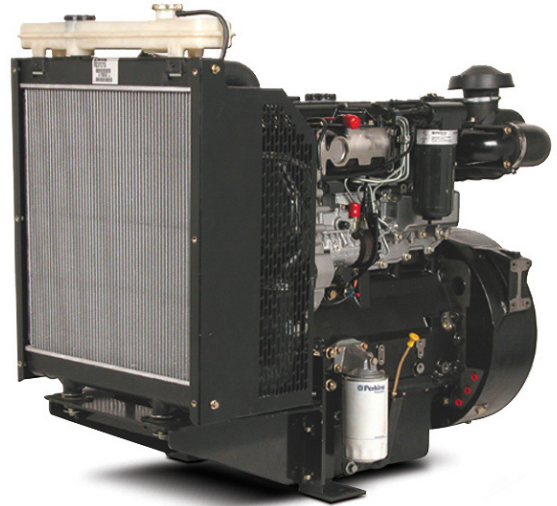
**Power range 1800 rpm** 45-118 kW (engine gross power)

**Emissions** EU Stage II/U.S. EPA Tier 2

Building upon Perkins proven reputation within the power generation industry, the 1104C Series range of ElectropaK engines now fit even closer to customers' needs.

In the world of power generation today, success is only gained by providing more for less. Therefore with the 1104C products, Perkins has engineered for its customers even higher levels of reliability, yet lowered the cost of ownership.

Crucially, bare engine noise is lower than ever before. Rapid starting and pick-up are naturally built in especially for cold operation, but where legislation or local markets demand an emissions capability, the engine is designed to comply with the required regulations including EU Stage II mobile off-highway legislation and TA Luft (1986) regulations.



## Features and benefits

- The Perkins® 1104C Series was developed following an intensive period of customer research. The cylinder blocks ensure bore roundness is maintained under the pressures of operation, as well as significantly reducing mechanical and combustion noise. A cross-flow cylinder head design optimises combustion control, and combines with turbocharger and chargecooler technology to achieve the best combination of **power delivery and low exhaust emissions**.
- The refined structure of the 1104C range leads to an exceptionally low noise signature coupled with the compact packaging provides **ease of integration**.
- To meet environmental needs swirl conditioned air is delivered through the new cross-flow cylinder head, and burns cleanly with the high pressure fuel from an advanced technology rotary pump delivering **high quality as standard**.
- Service intervals are set at 500 hours as standard assuming approved fuels and lubricating oils are used to deliver **low operating costs**.
- Throughout the entire life of a Perkins engine, we provide access to genuine factory specification parts giving reassurance that you receive excellent quality for the **lowest possible cost**, wherever your Perkins powered machine is operating in the world.
- 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 finger tips, covering technical information, parts identification and ordering systems, all dedicated to **maximising the productivity** of your engine.

Perkins actively pursues product support excellence with our distribution network investing in their territory to provide you with a consistent quality of support across the globe.

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## Specification

	1104C-44						
	G1	G2	TG1	TG2	TG3	TAG1	TAG2
Configuration	ElectropaK						
Cylinders	4 vertical in-line						
Displacement, litres (in <sup>3</sup> )	4.41 (269)						
Aspiration	Naturally aspirated	Turbocharged			Turbocharged, air-to-air chargecooled		
Bore and stroke, mm (in)	105 x 127 (4.1 x 5.0)						
Combustion system	Direct injection						
Compression ratio	19.3:1		18.2:1				
Exhaust aftertreatment	N/A						
Rotation (viewed from flywheel)	Anti-clockwise, viewed on flywheel						
Total lubricating oil capacity, litres (US gal)	7 (2)		8.0 (2.1)				
Cooling system	Watercooled						
Total coolant capacity, litres (US gal)	12.8 (3.4)		12.6 (3.3)				

## Standard equipment

	1104C-44						
	G1	G2	TG1	TG2	TG3	TAG1	TAG2
Electro unit or ElectropaK	ElectropaK						
Radiator fitted	✓						
Fuel filter, engine mounted	✓						
Water separator	N/A						
Fuel priming pump (manual/electric)	Manual						
Fuel cooler (not required for most installations)	N/A						
Air filter, engine mounted	✓						
Engine ECM, engine mounted	N/A						
Wiring harness to ECM	N/A						
Wiring harness (all connectors to single customer interface)	N/A						
Starter motor	✓						
Battery charging alternator	✓						
Flywheel housing	✓						
Flywheel	✓						
Fan	✓						
Fan guard	✓						
Temperature and oil pressure for automatic stop/alarm configurable	✓						

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## Technical information

Model	Speed	Type of Operation	Engine Power		Typical Generator Output* (Net)		Prime Fuel Consumption			
			Gross	Net			110%	100%	75%	50%
	rpm		kW (hp)	kW (hp)	kVA	kWe	g/kWh	g/kWh	g/kWh	g/kWh
1104C-44G1	1500	Prime	40 (54)	39 (52)	44	35	not available			
		Standby	44 (58)	43 (58)	48	39				
	1800	Prime	45 (60)	43 (58)	49	39	228	226	235	250
		Standby	49 (66)	48 (64)	43	54				
1104C-44G2	1800	Prime	49 (66)	47 (63)	53	43	235	232	233	250
		Standby	54 (72)	52 (70)	59	47				
1104C-44TG1	1800	Prime	64 (86)	60 (80)	68	54	232	230	233	245
		Standby	71 (95)	67 (90)	75	60				
1104C-44TG2	1500	Prime	56 (75)	54 (72)	60	48	229	226	226	227
		Standby	62 (83)	59 (79)	67	53				
1104C-44TG3	1500	Prime	56 (75)	54 (72)	60	48	223	219	220	225
		Standby	62 (83)	59 (79)	67	53				
1104C-44TAG1	1500	Prime	75 (101)	72 (96)	80	64	210	211	216	222
		Standby	83 (111)	79 (106)	89	71				
	1800	Prime	86 (115)	80 (108)	91	72	218	223	229	237
		Standby	94 (126)	89 (119)	100	80				
1104C-44TAG2	1500	Prime	94 (126)	90 (121)	101	81	205	205	207	204
		Standby	103 (138)	100 (133)	112	90				
	1800	Prime	107 (143)	102 (136)	114	92	214	218	218	228
		Standby	118 (157)	112 (151)	127	101				

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

## Engine package weights and dimensions

	1104C-44						
	G1	G2	TG1	TG2	TG3	TAG1	TAG2
Configuration	ElectropaK						
Dimensions, H x L x W, mm (in)	951 x 1162 x 622 (37.4 x 45.7 x 24.5)		951 x 1239 x 615 (37.4 x 48.8 x 24.2)			966 x 1259 x 721 (38 x 49.6 x 28.4)	
Dry weight, kg (lb)	386 (851)			401 (884)			

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.