Power range 1500 rpm78-105 kW (engine gross power)Power range 1800 rpm65-120 kW (engine gross power)

Emissions

EU Stage IIIA/US EPA Tier 3

The Perkins[®] 1104D-E44TG and 1104D-E44TAG ElectropaKs are the latest addition to 1100 Series electric power line-up. Offering improved power density from a compact package, these ElectropaKs build on Perkins reputation within the power generation industry.

These ultra clean engines are assembled on a high technology production line. Frequent computerised checks during the production process ensure high build quality is maintained throughout.

Hitting the key power nodes required by the market, the 1104D ElectropaK product line-up consists of three models offering a power solution for both prime and standby applications, in 50 Hz and 60 Hz territories and are certified against the relevant legislation.

Features and benefits

- The 1104D utilises the latest common-rail fuel system technologies with a closely optimised airmanagement system, which is overseen by the latest generation of electronic engine control. This allows the 1104D range to deliver **high power density** and excellent fuel economy with low exhaust emissions and minimum heat rejection.
- Hitting the key power nodes required by the market, the 1104D ElectropaKs have been developed to provide a clean and **cost effective** power solution.
- **Lower operating costs** as the 1104D maintains Tier 2 fuel economy, allowing customers to keep existing fuel tanks and service intervals as 500 hours standard.
- The 1104D has been designed to be worldwide fuel tolerant, and 5% biofuel (RME) options are available to meet local market needs.



• 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.

• 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.

All information in this document is substantially correct at time of printing and may be altered subsequently. Photographs are for illustrative purposes only and may not reflect final specification. Final weight and dimensions will depend on completed specification. Information subject to selected configuration, and subject to change without notice. Engine power measured per ISO 14396:2002 PN3246/02/21 Produced in England ©2021 Perkins Engines Company Limited

THE HEART OF EVERY GREAT MACHINE

Perkins®

Ender the state of	
Power range 1800 rpm	65-120 kW (engine gross power)
Power range 1500 rpm	78-105 kW (engine gross power)

Emissions

EU Stage IIIA/US EPA Tier 3

Specification

	Model				
	1104D-E44TG1	1104D-E44TAG1	1104D-E44TAG2		
Configuration	ElectropaK				
Cylinders		4 vertical in-line			
Displacement, litres (in ³)	4.4 (269)				
Aspiration	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	16.7:1				
Exhaust aftertreatment	N/A				
Rotation (viewed from flywheel)	Anti-clockwise, viewed from flywheel				
Total lubricating oil capacity, litres (US gal)	8.4 (2.2)				
Cooling system	Watercooled				
Total coolant capacity, litres (US gal)	16.5 (4.3) 17 (4.5)				

Technical information

			Engine Power		Typical		Prime Fuel Consumption			
Model	Speed	Type of Operation	Gross	Net		erator t* (Net)	110%	100%	75%	50%
	rpm		kW (hp)	kW (hp)	kVA	kWe	g/kWh	g/kWh	g/kWh	g/kWh
1104D-E44TG1	1800	Prime	65 (87)	63 (85)	68	55	231	236	249	276
1104D-E441G1	1800	Standby	71 (96)	70 (94)	60	75		230		
	1500	Prime	78 (105)	74 (99)	80	64	212	215	225	231
 1104D-E44TAG1	11040 5447401	Standby	86 (115)	81 (109)	88	70				
1104D-E441AG1	1000	Prime	89 (120)	85 (114)	91	73	221	224	238	258
	1800	Standby	98 (132)	93 (124)	100	80		224	230	200
	1500	Prime	96 (128)	91 (122)	100	80	205	207	001	236
	Standby	105 (141)	101 (135)	110	88		207	221	200	
1104D-E44TAG2 1800	1800 Prime Standby	Prime	110 (147)	104 (140)	114	91	215	216	232	253
		Standby	120 (161)	115 (154)	125	100				

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



All information in this document is substantially correct at time of printing and may be altered subsequently. Photographs are for illustrative purposes only and may not reflect final specification.

Final weight and dimensions will depend on completed specification.

Information subject to selected configuration, and subject to change without notice.

Engine power measured per ISO 14396:2002

PN3246/02/21 Produced in England ©2021 Perkins Engines Company Limited

Emissions	EU Stage IIIA/US EPA Tier 3
Power range 1800 rpm	65-120 kW (engine gross power)
Power range 1500 rpm	78-105 kW (engine gross power)

Standard equipment

	Model			
	1104D-E44TG1	1104D-E44TAG1	1104D-E44TAG2	
Electro unit or ElectropaK	ElectropaK	ElectropaK	ElectropaK	
Radiator fitted	\checkmark	\checkmark	✓	
Fuel filter, engine mounted	√	√	✓	
Water separator	\checkmark	✓	✓	
Fuel priming pump (manual/electric)	Manual	Manual	Manual	
Fuel cooler (not required for most installations)	N/A	N/A	N/A	
Air filter, engine mounted	\checkmark	✓	✓	
Engine ECM, engine mounted	\checkmark	√	✓	
Wiring harness to ECM	\checkmark	√	✓	
Wiring harness (all connectors to single customer interface)	N/A	N/A	N/A	
Starter motor	\checkmark	√	✓	
Battery charging alternator	\checkmark	√	✓	
Flywheel housing	\checkmark	√	✓	
Flywheel	\checkmark	√	✓	
Fan	\checkmark	\checkmark	✓	
Fan guard	\checkmark	\checkmark	✓	
Temperature and oil pressure for automatic stop/alarm configurable	\checkmark	✓	4	

All information in this document is substantially correct at time of printing and may be altered subsequently. Photographs are for illustrative purposes only and may not reflect final specification. Final weight and dimensions will depend on completed specification. Information subject to selected configuration, and subject to change without notice.



Engine power measured per ISO 14396:2002 PN3246/02/21 Produced in England ©2021 Perkins Engines Company Limited

Emissions	EU Stage IIIA/US EPA Tier 3
Power range 1800 rpm	65-120 kW (engine gross power)
Power range 1500 rpm	78-105 kW (engine gross power)

Engine package weights and dimensions





	Model				
	1104D-E44TG1	1104D-E44TAG1	1104D-E44TAG2		
Configuration	ElectropaK				
Dimensions, H x L x W, mm (in)	967 x 1280 x 717 (38 x 50.4 x 28.2) 1087 x 1358 x 746 (42.8 x 53.4 x 29.4)				
Dry weight, kg (lb)	439 (968)				

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.

All information in this document is substantially correct at time of printing and may be altered subsequently.

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

Final weight and dimensions will depend on completed specification.

Information subject to selected configuration, and subject to change without notice.

Engine power measured per ISO 14396:2002

PN3246/02/21 Produced in England ©2021 Perkins Engines Company Limited



THE HEART OF EVERY GREAT MACHINE