

854F-E34TA Industrial Open Power Unit

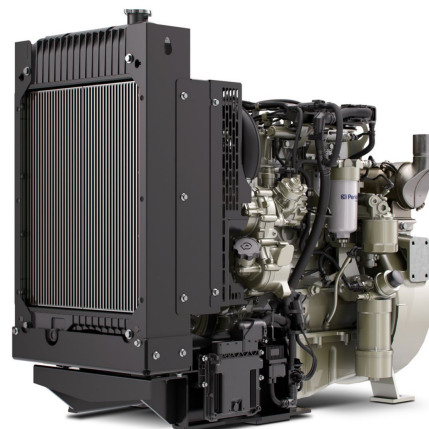
75-86 kW (101-115 hp) @ 2200-2500 rpm

EU Stage IV/U.S. EPA Tier 4 Final

Our 854F-E34TA Industrial Open Power Unit (IOPU) delivers exceptional power density and torque, while meeting the toughest EU Stage IV/U.S. EPA Tier 4 Final emission standards. The engine, built on the trusted and proven core of the 850 Series, is ideal for a range of off-highway applications and can be integrated into your machine with ease. We've worked with OEMs to optimise the engine's fuel consumption and keep your ownership costs low.

The 854F-E34TA IOPU is a turbocharged, air-to-air chargecooled 3.4 litre 4 cylinder unit capable of producing 86 kW (115 hp). It has high power density and excellent torque all in a compact design, allowing for easy integration into applications that are tight on space.

Designed to meet EU Stage IV/U.S. EPA Tier 4 Final emission standards.



Specifications

Power Rating		
Minimum power	75 kW	101 hp
Maximum power	86 kW	115 hp
Rated speed	2200-2500 rpm	
Maximum torque	475 Nm @ 2500 rpm	350 lb-ft @ 2500 rpm

Emission Standards	
Emissions	EU Stage IV/U.S. EPA Tier 4 Final

General		
Number of cylinders	4 inline	
Bore	99 mm	3.9 in
Stroke	110 mm	4.3 in
Displacement	3.4 litres	207.5 cubic in
Aspiration	Turbocharged aftercooled	
Cycle	4 stroke	
Compression ratio	17:1	
Combustion system	Direct injection	
Rotation (from flywheel end)	Anti-clockwise	
Cooling system	Liquid	

www.perkins.com

Photographs are for illustrative purposes only and may not reflect final specification.
All information is substantially correct at time of printing and may be altered subsequently.
Final weights and dimensions will depend on completed specification.

SS-10368384-1000003117-005
MSS-IND-1000003117-006.pdf

 **Perkins®**

THE HEART OF EVERY GREAT MACHINE

854F-E34TA Industrial Open Power Unit

75-86 kW (101-115 hp) @ 2200-2500 rpm

EU Stage IV/U.S. EPA Tier 4 Final

Total coolant capacity	16 litres	4.2 US gal
Total lubricating capacity	9.5 litres	2.5 US gal

Engine Dimensions*

Length	1166 mm	46 in
Width	694 mm	27.3 in
Height	957 mm	37.6 in
Dry weight	407 kg	897 lb

Aftertreatment Dimensions* - DOC

Length	342.8 mm	13.5 in
Diameter	296 mm	11.6 in
Weight	10 kg	22 lb

Aftertreatment Dimensions* - SCR

Length	568 mm	22.3 in
Diameter	251 mm	9.8 in
Weight	20 kg	44 lb

Disclaimer

*Final dimensions dependent on selected options	0	0
---	---	---

Features and Benefits

A lifetime of low cost

Excellent fuel consumption, 500 hour oil change intervals, long-lasting quality components and cost-saving aftertreatment options all add up to an engine that will deliver the durable power you need at a low cost.

Fuel economy

Our 854F-E34TA IOPU engine is designed to provide excellent fuel economy and we've worked closely with OEMs to optimise fuel consumption in the engine, matching the operating cycles of a wide range of equipment and applications.

Reliable power in a compact package

www.perkins.com

Photographs are for illustrative purposes only and may not reflect final specification.
All information is substantially correct at time of printing and may be altered subsequently.
Final weights and dimensions will depend on completed specification.

SS-10368384-1000003117-005
MSS-IND-1000003117-006.pdf

Produced In England © 2017 Perkins Engines Company Limited



THE HEART OF EVERY GREAT MACHINE

SS Page 2 of 4
Page: M-2 of M-3

854F-E34TA Industrial Open Power Unit

75-86 kW (101-115 hp) @ 2200-2500 rpm

EU Stage IV/U.S. EPA Tier 4 Final

The 854F-E34TA IOPU provides an impressive 75-86 kW (101-115 hp) and 475 Nm of torque. Our world-class manufacturing processes coupled with a proven core engine design ensure reliability, quiet operation and many hours of productive life. The engine's compact design makes it suitable for a range of off-highway applications.

Technical Information

Aftertreatment technology

- DOC - Diesel Oxidation Catalyst
- SCR - Selective Catalytic Reduction

Air inlet system

- Standard air cleaners

Control system

- All connectors and wiring looms waterproof and designed to withstand harsh off-highway environments
- Flexible and configurable software features and J1939 standard communications I/O
- Full electronic control system
- Fully integrated, engine-mounted engine control module

Flywheels and flywheel housing

- SAE3 configuration

Fuel system

- Electronic high pressure common rail
- Engine-mounted fuel filters

Power take-off

- SAE A flange on left-hand side

Standard emissions control equipment

- NRS – NO_x Reduction System

www.perkins.com

Photographs are for illustrative purposes only and may not reflect final specification.
All information is substantially correct at time of printing and may be altered subsequently.
Final weights and dimensions will depend on completed specification.

SS-10368384-1000003117-005
MSS-IND-1000003117-006.pdf

Produced In England © 2017 Perkins Engines Company Limited



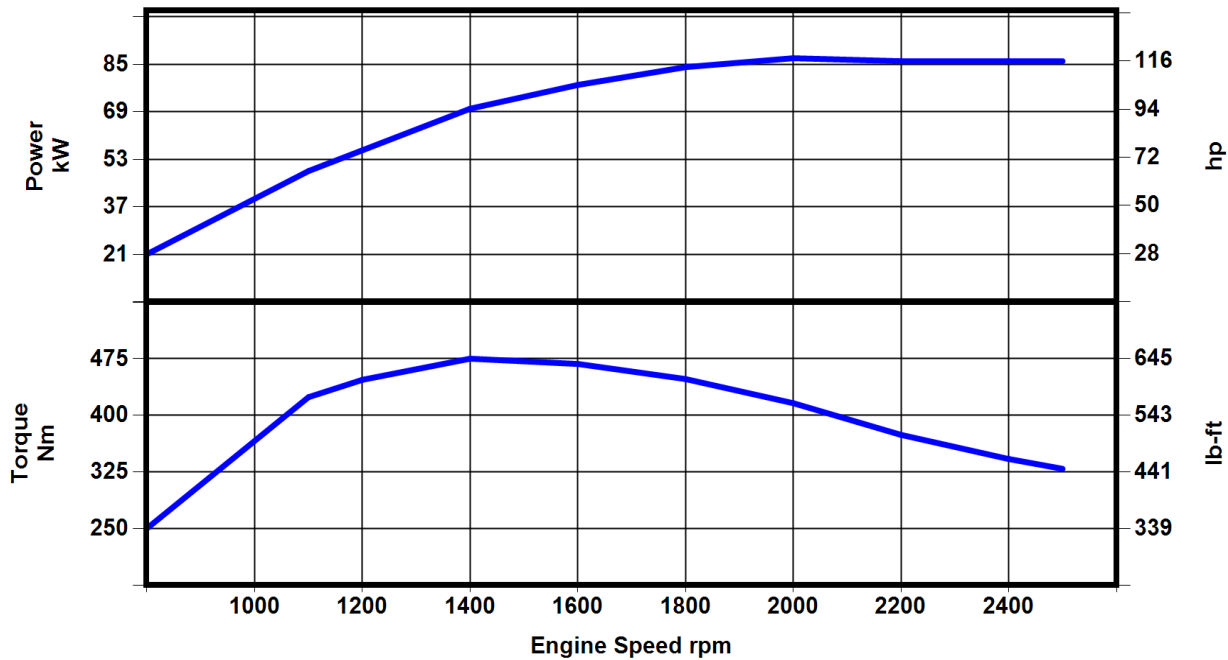
THE HEART OF EVERY GREAT MACHINE

SS Page 3 of 4
Page: M-3 of M-3

850 Series 854F-E34TA INDUSTRIAL ENGINE

EU Stage IV/U.S. EPA Tier 4 Final

75.0-86.0 kW / 101-115 hp



Power kW	Power hp	Rated Speed (rpm)	Torque Nm	Torque lb-ft	Speed (rpm)	Rating Type
75.0	101	2200	430	583	1400	Industrial C intermittent rating
86.0	115	2500	475	644	1400	Industrial D rating

Rating Standard ISO 14396:2002

Additional ratings are available for specific customer requirements. Consult your Perkins distributor.

Unless otherwise specified, all stated data is for maximum rated speed and 100% load.

B rating performance data will be added upon availability

Rating Definitions and Conditions

IND-C (Intermittent) Rating

Is the horsepower and speed capability of the engine where maximum power and/or speed are cyclic (time at full load not to exceed 50%).

IND D Rating

For service where maximum power is required for periodic overloads (time at full load not to exceed 5% of the duty cycle).

Rating Conditions for Diesel Engines – up to 7.1 liters are based on ISO/TR14396, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in. Hg), with a vapor pressure of 1 kPa (0.295 in Hg) and 25°C (77°F). Performance is measured using fuel to specification EPA 2D 89.330-96 with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).

www.perkins.com

Photographs are for illustrative purposes only and may not reflect final specification.
All information is substantially correct at time of printing and may be altered subsequently.
Final weights and dimensions will depend on completed specification.



THE HEART OF EVERY GREAT MACHINE