

Model: AF3860-61D

49.5 kW@1800 rpm

Engine Speed r/min	Type of Operation	Engine Power kW
1800	Prime Power	45
1800	Standby Power	49.5

Product Features

Engine reliability is improved by adopting one-piece crankshaft made of non-quenched and tempered steel and improved gaskets for all connections.

Symmetrical-design of two water pumps and two oil pumps improves cooling and lubrication capacities, reduces water tank volume, and adapts to applications in the regions with different ambient temperatures.

Two-section exhaust pipe and optimized leakproof structure reduce probability of leakage. The air intake manifold is changed into casting structure.

Redesigned fuel pipeline, improved other outside pipelines, air cleaner arrangement, and guard design, as well as reasonable layout make the engine appear more in sense of industrial design.

Fractured connecting-rod provides easy service and maintenance.

Base configuration

Engine with fan	Intake and exhaust system: Air filter and connecting pipes; Connecting flang of exhaust pipe
Alternator 35A 28V	Cooling system: Radiator with connecting pipes; Fan guard;Belt guard
Starter motor 4.5kW 24V	

Specifications

Engine Model	AF3860-61D
Type	In-line, 4-cylinder, 4-stroke
Air intake type	Natural
Cooling mode	Water cooling
Governor mode	Electronic
Bore x stroke	102x118mm
Compression ratio	17 : 1
Displacement	3.86 L
Fuel consumption	225 g/kWh
Oil consumption	≤0.05 L/h
Steady state speed regulation	3%
Oil capacity including filter	13 L
Emission compliant	CN Stage II
The flywheel shell interface	SAE3-11.5"
Dry weight of base	320 kg
Dimension (L*W*H)	820x740x780 mm
Coolant capacity (engine)	8 L
Coolant capacity (radiator)	12 L
Air intake pressure (max.)	6.3 kPa
27°C air consumption	3.2 m³/min
Max. exhaust back pressure	6.7 kPa
Heat rejection of exhaust	42.9 kW
Exhaust gas temperature after turbine	560 °C
Exhaust gas flow	8.9 m³/min
Heat rejection from engine	3.6 kW
Heat rejection of coolant	30.6 kW
Fan diameter	420mm
Fan flow	1.32 m³/s
Coolant flow	3.4 L/s

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