

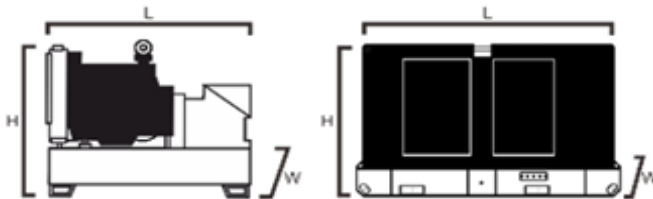
Technical Data

Engine		Alternator		Generator Model		
Fawde CA4F2-12D				PC90-G / Silent		
Frequency	Phase	Power Factor		Emissions		
50Hz/1500rpm	3-Phase	Factor Cos $\Phi = 0.8$		Stage II		
RATINGS	Prime Power		Standby Power		Rated Current	Fuel Consumption @ 100% Load
	(PRP)		(ESP)			
Voltage (V)	kWe	kVA	kWe	kVA	(A)	L/h
380/220	72	90	79	99	136.7	21.7
400/230	72	90	79	99	129.9	21.7
415/240	72	90	79	99	125.2	21.7



Key Features:

- High efficient water cooled diesel engine.
- Single bearing with brushless alternators (Class H, with AVR).
- Radiator with pressure cap and drain point.
- Fully guarded engine-driven fan.
- Fully welded steel skid base with lifting holes and fork lift legs.
- Integral fuel tank with filler cap and gauge ($\leq 650\text{kVA}$).
- Heavy duty rubber anti-vibration mountings.
- 12V or 24V maintenance free starter battery and connecting cables.
- Separate engine-driven battery charging alternator.
- Spin on oil and fuel filters and dry type air filter element.
- Industrial silencer (15dBA reduction) supplied loose.
- Auto start control system with LCD show.
- Battery charger provided.
- Main line 3P circuit breaker.
- Rigorous factory test wiring with IEC standard.
- Operation & Maintenance manual & Wiring diagrams.
- Wide range of optional extra features available.



Dimensions & Weights

Dimensions & Weights	Silent
Length (L)-mm:	2500
Width (W)-mm:	980
Height (H)-mm:	1250
Dry Weight-kg:	1250
Fuel tank (h)	8
(dBA)@7m no load	≤ 85

Ratings:

All three phase generator sets are rated at 0.8 power factor. All single-phase generator sets are rated at 0.8 or 1.0 power factor.

(1)PRP (Prime Power):

Available continuously at variable load in lieu of commercially purchased power for an unlimited number of hours per year accordance with ISO8528-1, and an overload of 10% permitted for one hour in every twelve hours of operation in accordance with ISO 3046-1.


(2)ESP (Standby Power):

Emergency Standby Power in variable load applications in accordance with ISO8528-1 in the event of a utility power failure.

(3)STD:Standard Alternator.

Tide Power reserves the right to change the design or specifications without notice and without any obligation or liability.

Engine	Fawde CA4F2-12D		
Frequency	Hz	50	
Engine Speed	r/min	1500	
Cylinders / Type	4 cyl	4-stroke	

General Performance	Aspiration	Turbo/ Intercooling	
	Governor Type	Electronic	
	Bore / Stroke	mm	110*125
	Displacement	Litres	4.75
	Compression Ratio	17:1	
	Brake Mean Effective Pressure	MPa	1.18
	Rotation Direction (from flywheel)	Anti-clockwise	
	Gross Engine Power	kWm	92
	Fuel System	Fuel Consumption at 110% Prime Power	Litres/hour
Fuel Consumption at 100% Prime Power		Litres/hour	21.7
Fuel Consumption at 75% Prime Power		Litres/hour	16.2
Fuel Consumption at 50% Prime Power		Litres/hour	10.8
Fuel Consumption at 25% Prime Power		Litres/hour	5.4
Standard Fuel Tank Capacity		Hours	8
Oil System	Total Oil System Capacity	Litres	16
	Oil consumption	L/h	0.06
	Oil consumption (as % of fuel consumption)	0.29%	
	Maximum Oil Temperature	°C	115
Cooling System	Coolant Capacity - Engine Only	Litres	6.5
	Standard Thermostat (Modulating) Range	°C	82-95
	Maximum Coolant Temperature - Engine Out	°C	97
Electric System	Electrical System Voltage	V	24
	Battery	Maintenance-free	
Energy Balance	Heat Rejection of Exhaust	kW	64
	Heat Rejection from Engine	kW	12
	Heat Rejection to Coolant	kW	46
 Alternator	50Hz/1500rpm		
General Data	Manufacture / Brand	Werrna	
	Model	WR274C	
	Coupling / No. of Bearings	Direct / Single Bearing	
	Phase / Poles	3-Phase / 4-Pole	
	Power Factor	Cos Φ = 0.8	
	AVR Regulation	Yes	
	Voltage Regulation	±1 %	
	Insulation Class	H	
	Drip Proof	IP23	
	Voltage Regulator	AVR	
	Altitude	≤1000 m	