
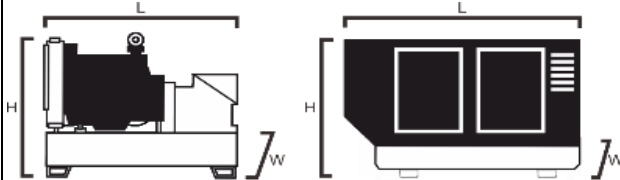


Technical Data						
Engine		Alternator			Generator Model	
Fawde 4DX21-53D		Werna WRWR184J			FB38-G / Silent	
Frequency	Phase	Power Factor			Emissions	
50Hz/1500rpm	3-Phase	Factor Cos $\Phi = 0.8$			Stage II	
RATINGS	Prime Power		Standby Power		Rated Current	Fuel Consumption @100% Load
	(PRP)		(ESP)		Amps	
Voltage (V)	kWe	kVA	kWe	kVA	(A)	L/h
380/220	30	38	33	41	57,7	10,4
400/230	30	38	33	41	54,8	10,4
415/240	30	38	33	41	52,9	10,4





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	Silent
Length (L)-mm:	2200
Width (W)-mm:	1100
Height (H)-mm:	1120
Dry Weight-kg:	924
Fuel tank (h)	12hours (130L)
(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 4DX21-53D			
General Performance	Frequency	Hz	50	
	Engine Speed	r/min	1500	
	Cylinders / Type	4 cyl	4-stroke	
	Aspiration	Turbocharged		
	Governor Type	Mechanical		
	Bore / Stroke	mm	102*118	
	Displacement	Litres	3,86	
	Compression Ratio	17:1		
	Brake Mean Effective Pressure	MPa	0,81	
	Rotation Direction (from flywheel)	Anti-clockwise		
	Engine Power	kWm	38	43
Fuel System	Fuel Consumption at 110% Prime Power	Litres/hour	12,48	
	Fuel Consumption at 100% Prime Power	Litres/hour	10,4	
	Fuel Consumption at 75% Prime Power	Litres/hour	8,32	
	Fuel Consumption at 50% Prime Power	Litres/hour	6,2	
	Fuel Consumption at 25% Prime Power	Litres/hour	3,12	
	Standard Fuel Tank Capacity	Hours	6	
Oil System	Total Oil System Capacity	Litres	12,5	
	Oil consumption	L/h	0,06	
	Oil consumption (as % of fuel consumption)	0,49%		
	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	31,6	
	Heat Rejection from Engine	kW	3,3	
	Heat Rejection to Coolant	kW	20,1	
Alternator	50Hz/1500rpm			
General Data	Manufacture / Brand	Werna		
	Model	WR184J		
	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		