

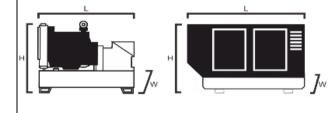
Technical Data									
Engine			Alternator		Generator Model				
Fawde 4DX23-78D		Werna WR224E			FB60-G / Silent				
Frequency	Pha	se	Power Factor		Emissions				
50Hz/1500rpm	3-Ph	ase	Factor Cos Φ = 0.8		Stage II				
RATINGS	Prime Power		Standby Power		Rated (Current	Fuel Consumption		
	(PRP)		(ESP)		Amps		@100% Load		
Voltage (V)	kWe	kVA	kWe	kVA	(A	A)	L/h		
380/220	48	60	53	66	91,2		14,3		
400/230	48	60	53	66	86,6		14,3		
415/240	48	60	53	66	83,5		14,3		







- 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 (≤650kVA).
- 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:	2400
Width (W)-mm:	1050
Height (H)-mm:	1210
Dry Weight-kg:	1060
Fuel tank (h)	16hours(225L)
(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 4DX23-78D						
	Frequency	Hz	50				
	Engine Speed	r/min	1500				
	Cylinders / Type	4 cyl	4-stroke				
	Aspiration	Turbo/ Intercooling					
	Governor Type	Elecrtonic					
General Performance	Bore / Stroke	mm	102*118				
	Displacement	Litres	3,86				
	Compression Ratio	17:1					
	Brake Mean Effective Pressure	MPa 1,18					
	Rotation Direction (from flywheel)	Anti-clockwise					
	Engine Power	kWm	57 63				
	Fuel Consumption at 110% Prime Power	Litres/hour	17,16				
	Fuel Consumption at 100% Prime Power	Litres/hour	14,3				
- 10	Fuel Consumption at 75% Prime Power	Litres/hour	11,44				
Fuel System	Fuel Consumption at 50% Prime Power	Litres/hour	8,6				
	Fuel Consumption at 25% Prime Power	Litres/hour	4,29				
	Standard Fuel Tank Capacity	Hours	8				
	Total Oil System Capacity	Litres	13				
	Oil consumption	L/h	0,05				
Oil System	Oil consumption (as % of fuel consumption)	0,29%					
	Maximum Oil Temperature	°C 115					
	Coolant Capacity - Engine Only	Litres	6,5				
Cooling System	Standard Thermostat (Modulating) Range	°C	82-95				
	Maximum Coolant Temperature - Engine Out	°C	97				
FI O	Electrical System Voltage	V	24				
Electric System	Battery	Maintenan	Maintenance-free				
	Heat Rejection of Exhaust	kW	44				
Energy Balance	Heat Rejection from Engine	kW	5,1				
	Heat Rejection to Coolant	kW	41,6				
Alternator	50Hz/1	50Hz/1500rpm					
	Manufacture / Brand	Werr	Werna				
	Model	WR224E					
	Coupling / No. of Bearings	Direct / Single Bearing					
	Phase / Poles	3-Phase / 4-Pole					
	Power Factor	Cos Φ = 0.8					
General Data	AVR Regulation	Yes					
	Voltage Regulation	±1 %					
	Insulation Class	Н					
	Drip Proof	IP23					
	Voltage Regulator	AVR					
	Altitude ≤10		O m				