

					Technical Data		
Engine Alternator				Generator Model			
Fawde CA6DF2-17D		FPA27-1003		03	PC125-G / Silent		
Frequency	Pha	ise		Power Factor	Emissions		Emissions
50Hz/1500rpm	3-Ph	ase	F	actor Cos $\Phi = 0$.	8	Stage II	
RATINGS	Prime Power		Standby Power		Rated	Current	Fuel Consumption
INATING5	(PRP)		(ESP)		Amps		@100% Load
Voltage (V)	kWe	kVA	kWe	kVA	(/	۹)	L/h
380/220	100	125	110	137	189	9.9	23.7
400/230	100	125	110	137	18	0.4	23.7
415/240	100	125	110	137	173	3.9	23.7
				Key Feature	s:		
		 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. 					
	· _=	L		Dimens Weig	hts		Silent
			Length (L)-mm: Width (W)-mm:			980	
				Height (H)-mm:		1250	
			7	Dry Weight-kg:			1250
				Fuel tank (h)			8
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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 CA6DF2-17D					
	Frequency	Hz	50			
	Engine Speed	r/min	1500			
	Cylinders / Type	6 cyl	4-stroke			

MULTILEC

General Performance Governor Type Electronic Bare / Stroke mm 110*125 Displacement Litres 7.13 General Performance MPa 1.18 Rotation Direction (from flywheel) Anti-clockwise 1.18 Rotation Direction (from flywheel) Anti-clockwise 28.07 Fuel Consumption at 10% Prime Power Litres/hour 28.07 Fuel Consumption at 50%, Prime Power Litres/hour 28.07 Fuel Consumption at 50%, Prime Power Litres/hour 16.2 Fuel Consumption at 50%, Prime Power Litres/hour 5.95 Standard Fuel Tank Capacity Hours 8 Oil Ossumption at 50%, Prime Power Litres/hour 5.95 Oil Consumption at 25%, Prime Power Litres/hour 5.95 Oil Ossumption (at 8% of the loconsumption) 0.02% 0.02% Oil Consumption (at 8% of the loconsumption) 0.29% 0.02% Oil Consumption (at 8% of the loconsumption) 0.29% 0.02% Maximum Oil Temperature C 115 Cooling System Standard	I [Aspiration	Turbo/ Intercooling				
Displacement Litres 7.13 Compression Ratio 17:1 Brake Mean Effective Pressure MPa 1.18 Rotation Direction (from flywheel) Anti-clockwise Gross Engine Power kWm 138 Fuel Consumption at 10% Prime Power Litres/hour 26.07 Fuel Consumption at 10% Prime Power Litres/hour 23.7 Fuel Consumption at 50% Prime Power Litres/hour 11.9 Fuel Consumption at 25% Prime Power Litres/hour 16.2 Fuel Consumption at 25% Prime Power Litres/hour 5.95 Standard Fuel Tank Capacity Hours 8 Total OI System Oil consumption L/h 0.06 Oil consumption (as % of fuel consumption) 0.29% Maximum Oil Temperature °C 815 Cooling System Coolant Capacity - Engine Only Litres N/A Standard Thermostat (Modulating) Range °C 82.95 Maximum Colarit Temperature - Engine Out °C 97 15 102 Electric System Battery Maintenance-free 102		Governor Type	Elecrtoni	Elecrtonic			
Compression Ratio 17.1 Brake Mean Effective Pressure MPa 1.18 Rotation Direction (from flywheel) Anti-clockwise Gross Engine Power KWm 138 Fuel Consumption at 100% Prime Power Litres/hour 26.07 Fuel Consumption at 100% Prime Power Litres/hour 23.7 Fuel Consumption at 50% Prime Power Litres/hour 16.2 Fuel Consumption at 50% Prime Power Litres/hour 5.95 Standard Fuel Tank Capacity Hours 8 Total Oil System Total Oil System Capacity Litres 20 Oil consumption (as % of fuel consumption) 0.29% Maximum Oil Temperature 115 Cooling System Standard Thermostat (Modulating) Range *C 82-95 Maximum Coolant Temperature - Engine Out *C 97 Electric System Electrical System Voltage V 24 Battery Maintenance-free Heat Rejection of Exhaust kW 102 Energy Balance Heat Rejection from Engine kW 102 18 Maximum Coll E	General Performance	Bore / Stroke	mm	110*125			
Brake Mean Effective Pressure MPa 1.18 Rotation Direction (from flywheel) Anti-clockwise Gross Engine Power kWm 138 Fuel Consumption at 100% Prime Power Litres/hour 28.07 Fuel Consumption at 100% Prime Power Litres/hour 23.7 Fuel Consumption at 75% Prime Power Litres/hour 16.2 Fuel Consumption at 25% Prime Power Litres/hour 15.2 Fuel Consumption at 25% Prime Power Litres/hour 15.2 Fuel Consumption at 25% Prime Power Litres/hour 5.95 Standard Fuel Tank Capacity Hours 8 Total Oil System Capacity Litres 20 Oil consumption (as % of fuel consumption) 0.29% 0.00 Maximum Oil Temperature °C 115 Cooling System Standard Thermostat (Modulating) Range °C 82-95 Maximum Collant Temperature - Engine Out °C 97 Electric System Battery Maintenance-free Heat Rejection for Engine kW 102 Heat Rejection from Engine kW		Displacement	Litres	7.13			
Rotation Direction (from flywheel) Anti-clockwise Gross Engine Power kWm 138 Fuel Consumption at 10% Prime Power Litres/hour 26.07 Fuel Consumption at 10% Prime Power Litres/hour 23.7 Fuel Consumption at 75% Prime Power Litres/hour 16.2 Fuel Consumption at 50% Prime Power Litres/hour 19.3 Fuel Consumption at 25% Prime Power Litres/hour 5.95 Standard Fuel Tank Capacity Hours 8 Oil System Total Oil System Capacity Litres 20 Oil consumption (as % of fuel consumption) 0.29% - Maximum Oil Temperature °C 115 Coolant Capacity - Engine Only Litres N/A Coolant Capacity - Engine Only Litres N/A Electric System Standard Thermostat (Modulating) Range °C 82-95 Maximum Colant Temperature - Engine Out °C 97 24 Electric System Heat Rejection of Exhaust kW 102 Energy Balance Heat Rejection of Colant kW 17 </td <td></td> <td>Compression Ratio</td> <td>17:1</td> <td></td>		Compression Ratio	17:1				
Gross Engine Power kWm 138 Fuel Consumption at 110% Frime Power Littes/hour 26.07 Fuel Consumption at 10% Frime Power Littes/hour 23.7 Fuel Consumption at 50% Prime Power Littes/hour 16.2 Fuel Consumption at 50% Prime Power Littes/hour 11.9 Fuel Consumption at 50% Prime Power Littes/hour 5.95 Standard Fuel Tank Capacity Hours 8 Oil System Oil consumption L/h 0.08 Oil consumption (as % of fuel consumption) 0.29% 0.08 Cooling System Standard Thermostat (Modulating) Range °C 115 Cooling System Standard Thermostat (Modulating) Range °C 82-95 Maximum Coolant Temperature - Engine Out °C 97 Electric System Battery Maintenance-free Heat Rejection of Exhaust kW 102 Heat Rejection from Engine kW 102 Heat Rejection from Engine kW 102 Heat Rejection from Engine kW 102 General Data <td></td> <td>Brake Mean Effective Pressure</td> <td>MPa</td> <td>1.18</td>		Brake Mean Effective Pressure	MPa	1.18			
Fuel System Fuel Consumption at 10% Prime Power Litres/hour 26.07 Fuel Consumption at 10% Prime Power Litres/hour 23.7 Fuel Consumption at 55% Prime Power Litres/hour 16.2 Fuel Consumption at 55% Prime Power Litres/hour 16.2 Fuel Consumption at 55% Prime Power Litres/hour 11.9 Fuel Consumption at 25% Prime Power Litres/hour 5.95 Standard Fuel Tank Capacity Hours 8 Oil System Oil consumption L/h 0.08 Oil consumption (a*% of fuel consumption) 0.29% Maximum Oil Temperature "C 115 Cooling System Standard Thermostat (Modulating) Range "C 82.95 82.95 Maximum Collant Temperature - Engine Out "C 97 82.95 82.95 Electric System Electrical System Voltage V 24 82.95 Energy Balance Heat Rejection of Exhaust kW 102 Heat Rejection form Engine kW 102 18 Heat Rejection form Engine kW 18 16.2 <td></td> <td>Rotation Direction (from flywheel)</td> <td colspan="3">Anti-clockwise</td>		Rotation Direction (from flywheel)	Anti-clockwise				
Fuel System Fuel Consumption at 100% Prime Power Litres/hour 23.7 Fuel Consumption at 75% Prime Power Litres/hour 16.2 Fuel Consumption at 25% Prime Power Litres/hour 16.2 Fuel Consumption at 25% Prime Power Litres/hour 5.95 Standard Fuel Tank Capacity Hours 8 Oil System Total Oil System Capacity Litres 20 Oil consumption (as % of fuel consumption) L/h 0.08 00 Oil consumption (as % of fuel consumption) 0.29% Maximum Oil Temperature °C 115 Coolant Capacity - Engine Only Litres N/A 00 24 24 Electric System Standard Thermostat (Modulating) Range °C 82.95 32.95 Maximum Coolant Temperature - Engine Out °C 97 24 Electric System Battery Maintenance-free 46.82.95 Maximum Coolant Temperature - Engine Out %W 102 32.95 Energy Balance Heat Rejection of Exhaust kW 102 Heat Rejection fore Engine		Gross Engine Power	kWm	138			
Fuel System Fuel Consumption at 75% Prime Power Litres/hour 16.2 Fuel Consumption at 50% Prime Power Litres/hour 11.9 Fuel Consumption at 25% Prime Power Litres/hour 5.95 Standard Fuel Tank Capacity Hours 8 Oil System Oil consumption L/h 0.08 Oil System Oil consumption (as % of fuel consumption) 0.29% Maximum Oil Temperature °C 115 Cooling System Coolant Capacity - Engine Only Litres N/A Cooling System Standard Thermostat (Modulating) Range °C 82-95 Maximum Colant Temperature - Engine Only utres N/A Electric System Electrical System Voltage V 24 Battery Maintenance-free Heat Rejection of Exhaust KW 102 Energy Balance Heat Rejection from Engine kW 18 Maufacture / Brand Tide Model FPA27-1003 General Data Manufacture / Brand Tide Nodel SPhase / 4-Pole Power Factor		Fuel Consumption at 110% Prime Power	Litres/hour	26.07			
Fuel System Fuel Consumption at 50% Prime Power Litres/hour 11.9 Fuel Consumption at 25% Prime Power Litres/hour 5.95 Standard Fuel Tank Capacity Hours 8 Oil System Total Oil System Capacity Litres 20 Oil consumption L/h 0.08 01 Oil System Oil consumption (as % of fuel consumption) 0.29% Maximum Oil Temperature °C 115 Cooling System Standard Thermostat (Modulating) Range °C 82-95 Maximum Colant Temperature - Engine Only Litres N/A Electric System Electrical System Voltage V 24 Battery Maintenance-free Heat Rejection of Exhaust kW 102 Energy Balance Heat Rejection from Engine kW 18 Heat Rejection to Coolant kW 18 Heat Rejection to Coolant kW 77 Manufacture / Brand Tide Model FPA27-1003 Coupling / No. of Bearings Origing / No. of Bearings Diricet / Single Be		Fuel Consumption at 100% Prime Power	Litres/hour	23.7			
Fuel Consumption at 50% Prime Power Litres/hour 11.9 Fuel Consumption at 25% Prime Power Litres/hour 5.95 Standard Fuel Tank Capacity Hours 8 Oil System Oil consumption L/h 0.08 Oil consumption (as % of fuel consumption) 0.29% 0.08 Maximum Oil Temperature °C 115 Coolant Capacity - Engine Only Litres N/A Cooling System Standard Thermostat (Modulating) Range °C 82-95 Maximum Coolant Temperature - Engine Out °C 97 24 Electric System Electrical System Voltage V 24 Battery Maintenance-free 97 Heat Rejection of Exhaust KW 102 Energy Balance Heat Rejection from Engine KW 18 Heat Rejection for Engine KW 18 Heat Rejection to Coolant kW 77 Heat Rejection to Colant KW 102 Energy Balance Manufacture / Brand Tide Model FPA27-1003 <td>Fuel System</td> <td>Fuel Consumption at 75% Prime Power</td> <td>Litres/hour</td> <td>16.2</td>	Fuel System	Fuel Consumption at 75% Prime Power	Litres/hour	16.2			
Standard Fuel Tank Capacity Hours 8 Oil System Total Oil System Capacity Litres 20 Oil consumption L/h 0.08 01 Oil consumption (as % of fuel consumption) 0.29% 0.15 Maximum Oil Temperature °C 115 Coolant Capacity - Engine Only Litres N/A Coolant Temperature - Engine Only Litres 8 Electric System Standard Thermostat (Modulating) Range °C 97 Electric System Electrical System Voltage V 24 Heat Rejection of Exhaust kW 102 Heat Rejection from Engine kW 102 Heat Rejection from Engine kW 18 Heat Rejection from Engine kW 18 Heat Rejection of Coolant kW 17 Manufacture / Brand Tide 102 Model FPA27-1003 102 Coupling / No. of Bearings Direct / Single Bearing Olidage Regulation 41% 102 Phase / Poles <td< td=""><td>Fuel System</td><td>Fuel Consumption at 50% Prime Power</td><td>Litres/hour</td><td>11.9</td></td<>	Fuel System	Fuel Consumption at 50% Prime Power	Litres/hour	11.9			
Oil System Total Oil System Capacity Litres 20 Oil consumption L/h 0.08 Oil consumption (as % of fuel consumption) 0.29% Maximum Oil Temperature °C 115 Cooling System Coolant Capacity - Engine Only Litres N/A Standard Thermostat (Modulating) Range °C 82-95 Maximum Coolant Temperature - Engine Out °C 97 Electric System Electrical System Voltage V 24 Battery Maintenance-free 112 Heat Rejection of Exhaust kW 102 Energy Balance Heat Rejection tro Engine kW 18 Heat Rejection to Coolant kW 17 Model FPA27-1003 10 Coupling / No. of Bearings Direct / Single Bearing Phase / Poles 3-Phase / 4-Pole Power Factor Cos Φ = 0.8 General Data AVR Regulation ¥1% Insulation Class H 10 Otitage Regulation ±1% 10		Fuel Consumption at 25% Prime Power	Litres/hour	5.95			
Oil SystemOil consumptionL/h0.08Oil consumption (as % of fuel consumption)0.29%Maximum Oil Temperature°C115Coolant Capacity - Engine OnlyLitresN/ACooling SystemStandard Thermostat (Modulating) Range°C82-95Maximum Coolant Temperature - Engine Out°C97Electric SystemElectrical System VoltageV24BatteryMaintenance-freeHeat Rejection of ExhaustkW102Heat Rejection form EnginekW18Heat Rejection to CoolantkW17Image: Cooling Note: Provide CoolingSOHz/1500rpmImage: Cooling Note: Provide Cooling Note: Provide CoolingProvide Cooling CoolingManufacture / BrandTideManufacture / BrandCooling Cooling Cooling Note: Provide Cooling Cooling Cooling Note: Provide Cooling Cooling Note: Provide Cooling Cooling Note: Provide Cooling Cooling Cooling Note: Provide Cooling Cooling Note: Provide Cooling Cooling Cooling Cooling Note: Provide Cooling Cooling Cooling Note: Provide Cooling Cooling Cooling Note: Provide Cooling Co		Standard Fuel Tank Capacity	Hours	8			
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Oll consumption (as % of fuel consumption) 0.29% Maximum Oil Temperature °C 115 Cooling System Coolant Capacity - Engine Only Litres N/A Standard Thermostat (Modulating) Range °C 82-95 Maximum Coolant Temperature - Engine Out °C 97 Electric System Maximum Coolant Temperature - Engine Out °C 97 Electric System Maximum Coolant Temperature - Engine Out °C 97 Electric System Heat Rejection of Exhaust KW 102 Energy Balance Heat Rejection from Engine KW 102 Manufacture / Brand KW 18 Heat Rejection to Coolant KW 17 Model FPA27-1003 100 Model FPA27-1003 10 Coupling / No. of Bearings Direct / Single Bearing 18 Phase / Poles 3-Phase / 4-Pole 3-Phase / 4-Pole Power Factor Cos \$ 0.8 10 19 General Data AVR Regulation ¥1 % 10 10 1923 <td>Oil Sustam</td> <td>Oil consumption</td> <td>L/h</td> <td>0.08</td>	Oil Sustam	Oil consumption	L/h	0.08			
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Cooling SystemStandard Thermostat (Modulating) Range°C82-95Maximum Coolant Temperature - Engine Out°C97Electric SystemElectrical System VoltageV24BatteryMaintenance-freeHeat Rejection of ExhaustKW102Energy BalanceHeat Rejection from EnginekW18Heat Rejection to CoolantkW18Heat Rejection to CoolantkW77Image: Coupling / No. of BearingsDirect / Single BearingPhase / Poles3-Phase / 4-PolePower FactorCos Φ = 0.8Voltage Regulation±1 %Insulation ClassHDrip ProofIP23Voltage RegulatorAVR		Maximum Oil Temperature	°C	115			
Maximum Coolant Temperature - Engine Out °C 97 Electric System Electrical System Voltage V 24 Battery Maintenance-free Heat Rejection of Exhaust kW 102 Energy Balance Heat Rejection from Engine kW 18 Heat Rejection to Coolant kW 77 Image: Alternator SOHz/1500rpm Manufacture / Brand Tide Model FPA27-1003 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 H Orip Proof IIP23		Coolant Capacity - Engine Only	Litres	N/A			
Electrical System Voltage V 24 Battery Maintenance-free Heat Rejection of Exhaust kW 102 Energy Balance Heat Rejection from Engine kW 18 Heat Rejection to Coolant kW 77 Image: Alternator SOHE/I500rpm Manufacture / Brand Tide Model FPA27-1003 Coupling / No. of Bearings Direct / Single Bearing Phase / Poles 3-Phase / 4-Pole Power Factor Cos Φ = 0.8 Voltage Regulation ±1 % Insulation Class H Drip Proof IP23 Voltage Regulator AVR	Cooling System	Standard Thermostat (Modulating) Range	°C	82-95			
Electric System Battery Maintenance-free Energy Balance Heat Rejection of Exhaust kW 102 Heat Rejection from Engine kW 18 Heat Rejection to Coolant kW 77 Image: Coupling / No. of Coupling / No. of Bearings Direct / Single Bearing Coupling / No. of Bearings Direct / Single Bearing Phase / Poles 3-Phase / 4-Pole Power Factor Cos \$		Maximum Coolant Temperature - Engine Out	°C	97			
Battery Maintenance-tree Heat Rejection of Exhaust kW 102 Heat Rejection from Engine kW 18 Heat Rejection to Coolant kW 77 Alternator SOHZ/TSOOrpm Manufacture / Brand Tide Model FPA27-1003 Coupling / No. of Bearings Direct / Single Bearing Orego Power Factor Cos Φ = 0.8 AVR Regulation Yes Voltage Regulation ±1 % Insulation Class H Orip Proof IP23 Voltage Regulator AVR	Electric System	Electrical System Voltage	V	24			
Energy Balance Heat Rejection from Engine kW 18 Heat Rejection to Coolant kW 77 Image: Alternator SOHz/1500rpm Alternator Manufacture / Brand Tide Manufacture / Brand FPA27-1003 Coupling / No. of Bearings Direct / Single Bearing Coupling / No. of Bearings Direct / Single Bearing Phase / Poles 3-Phase / 4-Pole Power Factor Cos Φ = 0.8 Voltage Regulation Yes Insulation Class H Drip Proof IP23 Voltage Regulator AVR	Electric System	Battery	Maintenance-free				
Heat Rejection to Coolant kW 77 Image: Alternator SOHz/1500rpm Manufacture / Brand Tide Model FPA27-1003 Coupling / No. of Bearings Direct / Single Bearing Coupling / No. of Bearings Direct / Single Bearing Phase / Poles 3-Phase / 4-Pole Power Factor Cos Φ = 0.8 AVR Regulation Yes Insulation Class H Drip Proof IP23 Voltage Regulator AVR		Heat Rejection of Exhaust	kW	102			
Alternator50Hz/1500rpmManufacture / BrandTideManufacture / BrandFPA27-1003ModelFPA27-1003Coupling / No. of BearingsDirect / Single BearingCoupling / No. of BearingsOlirect / Single BearingPhase / Poles3-Phase / 4-PolePower FactorCos Φ = 0.8AVR RegulationYesVoltage Regulation±1 %Insulation ClassHDrip ProofIP23Voltage RegulatorAVR	Energy Balance	Heat Rejection from Engine	kW	18			
Manufacture / BrandTideModelFPA27-1003Coupling / No. of BearingsDirect / Single BearingPhase / Poles3-Phase / 4-PolePower FactorCos \$\$\Phase\$ = 0.8\$AVR RegulationYesVoltage Regulation±1 %Insulation ClassHDrip ProofIP23Voltage RegulatorAVR		Heat Rejection to Coolant	kW	77			
ModelFPA27-1003Coupling / No. of BearingsDirect / Single BearingPhase / Poles3-Phase / 4-PolePower FactorCos \$	- Alternator	50Hz/1500rpm					
Coupling / No. of BearingsDirect / Single BearingPhase / Poles3-Phase / 4-PolePower FactorCos Φ = 0.8AVR RegulationYesVoltage Regulation±1 %Insulation ClassHDrip ProofIP23Voltage RegulatorAVR		Manufacture / Brand	Tide				
Phase / Poles3-Phase / 4-PolePower FactorCos Φ = 0.8AVR RegulationYesVoltage Regulation±1 %Insulation ClassHDrip ProofIP23Voltage RegulatorAVR		Model	FPA27-10	03			
Phase / Poles3-Phase / 4-PolePower FactorCos Φ = 0.8AVR RegulationYesVoltage Regulation±1 %Insulation ClassHDrip ProofIP23Voltage RegulatorAVR		Coupling / No. of Bearings	Coupling / No. of Bearings Direct / Single Bearing				
General Data AVR Regulation Yes Voltage Regulation ±1 % Insulation Class H Drip Proof IP23 Voltage Regulator AVR		Phase / Poles					
Voltage Regulation±1 %Insulation ClassHDrip ProofIP23Voltage RegulatorAVR	General Data	Power Factor	Cos Φ = 0.8				
Insulation ClassHDrip ProofIP23Voltage RegulatorAVR		AVR Regulation	Yes				
Drip Proof IP23 Voltage Regulator AVR		Voltage Regulation					
Voltage Regulator AVR		Insulation Class H					
		Drip Proof IP23					
Altitude <1000 m		Voltage Regulator	AVR				
		Altitude	tude ≤1000 m				