

WGP-F20/S

FAWDE Series

Features:

- Rotate speed governor: Mechanical governor
- Excitation system: Self excited, SHUNT
- A.V.R model: SX460
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 12V sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy (Only for Soundproofed sets)
- 50°C radiator
- Oil pump on the engine
- Steel base frame with fork holes
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for daily running
- Drain points for fuel tank
- Operation Manual / Specifications



Dimensions and Weights

Model	L	W	H
WGP-F20	1600	800	1050
WGP-F20S	2000	850	1200

Output Ratings

Genset Model	Prime Power	Standby Power
WGP-F20	20kVA/16kW	22kVA/18kW
WGP-F20S	20kVA/16kW	22kVA/18kW

Ratings at 0.8 power factor

Notes:

*Prime Power

Continuous duty operation, under variable load 24/24h-10% over load

**Standby Power

Standby duty, operation under variable load, without over load;

Standard Reference Conditions

Note: Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m(328 ft) A.S.L. 30% relative humidity. Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998,

Ratings and Performance Data

Engine Model:	FAWDE 4DW91-29D
Alternator Brand:	WALT
Alternator Model:	WGP184ES
Control System:	Auto Genset / AMF
Circuit Breaker Type:	3 Pole MCCB
Frequency & Phase:	50Hz & 3PH
Engine Speed: RPM	1500
Fuel Tank Capacity: L	
WGP-F20	10 hrs
WGP-F20S	10 hrs
Fuel Consumption: l/hr (100% Load)	
- Prime Power	5
- Standby Power	5.5

Engine Model: FAWDE 4DW91-29D

Type	4-cylinder 4-stroke
Air intake type	Natural
Cooling mode	Water cooling
Governor mode	Mechanical & Electronic
Bore×Stroke(mm)	90×100
Compression ratio	17:1
Rated speed(rpm)	1500
Displacement(L)	2.54
Rated power(without fan)(kW)	21
Standby power(without fan)(kW)	23
Fuel consumption(g/kWh)	240
Oil consumption(L/h)	0.05
Steady state speed regulation(%)	≤5
Oil capacity including filter(L)	8
Emission compliant	Stage II
The flywheel shell interface	SAE4
Fan consumption (kW)	1.6
Heat rejection of exhaust (kW)	17.4
Exhaust gas temperature after turbine (°C)	450.0
Exhaust gas flow (m3/min)	4.6
Heat rejection from engine (kW)	1.3
Heat rejection of coolant (kW)	13.7
Alternator	500W 14V
Starter motor	3.5kW 12V
Cooling system	Radiator with connecting pipes; Fan guard;Belt guard

Alternator Model: WGP184ES

Alternator Physical Data

Manufactured by:	WALT
Model:	WGP184ES
No. of Bearings:	Single
Insulation Class:	H
Winding Pitch Code:	2/3
Wires:	12
Ingress Protection Rating:	IP23
Excitation System:	Self excited,shunt
AVR Model:	SX460

Alternator Operating Data

Overspeed: rpm	2250rpm
Voltage Regulation: (Steady state)	±1.0%
Wave Form NEMA = TIF:	< 50
Wave Form IEC = THF:	< 2%
Air Flow: m3/s	0.1
Altitude: m	≤1000

Voltage Technical Data WGP-F20

Voltage	Prime	Standby
	kVA	kVA
380/220	20	22
400/230	20	22
415/240	20	22
440/254	20	22

Voltage Technical Data WGP-F20S

Voltage	Prime	Standby
	kVA	kVA
380/220	20	22
400/230	20	22
415/240	20	22
440/254	20	22

Control System DSE4620



Features:

- Large back-lit icon LCD display.
- 3-phase generator sensing.
- 3-phase generator and mains (utility) sensing.
- 600 V ph-ph nominal system compatibility.
- Generator & load power monitoring (kW, kV A, kV Ar, pf).
- Generator overload protection (kW).
- Configurable inputs & outputs.
- Fuel & crank outputs.
- Magnetic pick-up speed sensing.
- Battery voltage monitoring.
- Configurable event log (50).
- DSE Configuration Suite PC Software.
- Engine speed protection, engine hours counter, engine pre-heat, engine run-time scheduler, engine idle control for start/stop.

Control System DSE7420

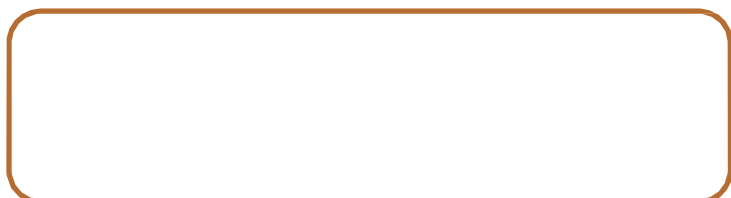


Features:

- Microprocessor control, with high stability and credibility .
- Mains supply and generator operation monitoring.
- Indicating operation status and fault conditions.
- Multiple protections; multiple parameters display such as pressure, temperature.
- Manual and automatic work mode selectable.
- Real time clock for time and date display, overall runtime display, 99 log entries
- Overall power output display.
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed.
- Communication with PC via RS485 or RS232 interface, using MODBUS protocol.
- Engine ECU is available.
- Common USB cable is usable for parameter configuration.
- Multi-language is available

Optional

<p>Engine</p> <ul style="list-style-type: none"> • Water Jacket Preheater • Fuel-water separator • Oil pump • Oil preheater • Battery preheater 	<p>Alternator</p> <ul style="list-style-type: none"> • PMG excitation • Alternator heater • Winding Temperature Measuring • Anti-damp and anti-corrosion treatment • Anti-condensation heater 	<p>Generator Set</p> <ul style="list-style-type: none"> •Tools with the machine •Coolant (-30°C)
<p>Canopy</p> <ul style="list-style-type: none"> • Hired type • Trailer 	<p>Fuel System</p> <ul style="list-style-type: none"> • Low fuel level alarm • Automatic fuel feeding system • Fuel T-valves • Dual Wall Integral Fuel Tanks • Dual Wall Sub-base Fuel Tanks • Automatic Fuel Fill Options • Fuel level shut down sensor 	<p>Control System</p> <ul style="list-style-type: none"> • AMF function • ATS control cabinet • Double HZ & Volt • ABB & MCCB
<p>Air Inlet system</p> <ul style="list-style-type: none"> • Air pre-heater 	<p>Lube system</p> <ul style="list-style-type: none"> • Manual sump pump • Lubricant oil pre-heater 	<p>Starting /Charging system</p> <ul style="list-style-type: none"> • Jacket water heater



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Walt reserves the right to make changes in model, technical specification, color, configuration and accessories without prior notice.

Please contact the salesman before ordering.

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