

# WGP-F41/S-6

## 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
- 24V 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-F41-6  | 1800 | 850 | 1250 |
| WGP-F41S-6 | 2280 | 950 | 1260 |

### Output Ratings

| Genset Model | Prime Power | Standby Power |
|--------------|-------------|---------------|
| WGP-F41-6    | 38kVA/30kW  | 41kVA/33kW    |
| WGP-F41S-6   | 38kVA/30kW  | 41kVA/33kW    |

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 4DX21-53D   |
| Alternator Brand:                  | WALT              |
| Alternator Model:                  | WGP184G           |
| Control System:                    | Auto Genset / AMF |
| Circuit Breaker Type:              | 3 Pole MCCB       |
| Frequency & Phase:                 | 60Hz & 3PH        |
| Engine Speed: RPM                  | 1800              |
| Fuel Tank Capacity: L              |                   |
| WGP-F41-6                          | 10 hrs            |
| WGP-F41S-6                         | 10 hrs            |
| Fuel Consumption: l/hr (100% Load) |                   |
| - Prime Power                      | 9.3               |
| - Standby Power                    | 10.2              |

## Engine Model: FAWDE 4DX21-53D

|  |  |
|--|--|
| Type                                       | 4-cylinder 4-stroke                                  |
| Air intake type                            | Natural  |
| Cooling mode                               | Water cooling  |
| Governor mode                              | Mechanical & Electronic                              |
| Bore×Stroke(mm)                            | 102×118  |
| Compression ratio                          | 17:1   |
| Rated speed(rpm)                           | 1800   |
| Displacement(L)                            | 3.86   |
| Rated power(without fan)(kW)               | 39   |
| Standby power(without fan)(kW)             | 43   |
| Fuel consumption(g/kWh)                    | 230  |
| Oil consumption(L/h)                       | 0.06   |
| Steady state speed regulation(%)           | ≤5   |
| Oil capacity including filter(L)           | 12.5   |
| Emission compliant                         | Stage II   |
| The flywheel shell interface               | SAE3   |
| Fan consumption (kW)                       | 2  |
| Heat rejection of exhaust (kW)             | 34.5   |
| Exhaust gas temperature after turbine (°C) | 580.0  |
| Exhaust gas flow (m <sup>3</sup> /min)     | 8.3  |
| Heat rejection from engine (kW)            | 2.0  |
| Heat rejection of coolant (kW)             | 21.5   |
| Alternator                                 | 35A 28V  |
| Starter motor                              | 4.5kW 24V  |
| Cooling system                             | Radiator with connecting pipes; Fan guard;Belt guard |

## Alternator Model: WGP184G

## Alternator Physical Data

|                            |                    |
|----------------------------|--------------------|
| Manufactured by:           | WALT               |
| Model:                     | WGP184G            |
| 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: m <sup>3</sup> /s        | 0.1     |
| Altitude: m                        | ≤1000   |

## Voltage Technical Data WGP-F41-6

| Voltage | Prime | Standby |
|---------|-------|---------|
|         | kVA   | kVA     |
| 460     | 38    | 41      |
| NA      | NA    | NA      |
| NA      | NA    | NA      |
| NA      | NA    | NA      |

## Voltage Technical Data WGP-F41S-6

| Voltage | Prime | Standby |
|---------|-------|---------|
|         | kVA   | kVA     |
| 460     | 38    | 41      |
| NA      | NA    | NA      |
| NA      | NA    | NA      |
| NA      | NA    | NA      |

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

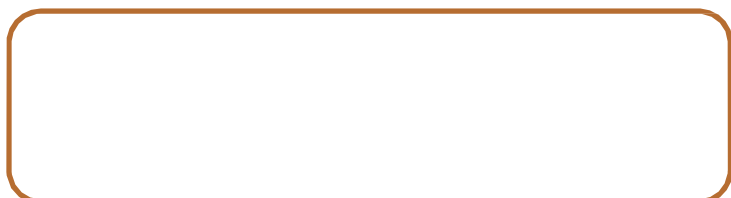


Features:

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



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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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