

# AC&CC-AF18

## General Features

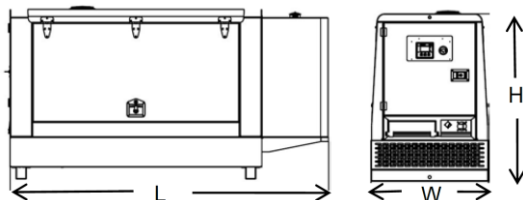
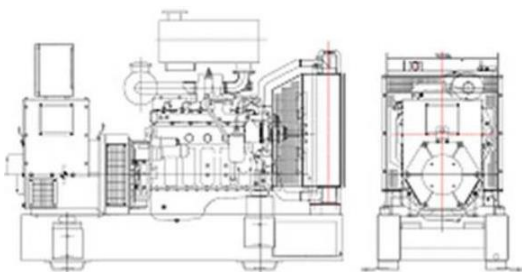
- Engine (FAW 4DW81-28D), Radiator 50°C max, belt driven fans, with safety guard
- 12V charge alternator
- Alternator (AGG KI 164DA Like STAMFORD), single bearing alternator IP23, insulation class H/H
- Skid and vibration isolators
- Dry type air filter, fuel filter, oil filter
- Main line circuit breaker
- Standard control panel
- One 12V battery, rack and cable
- Ripple flex exhaust pipe, exhaust siphon, flange, industrial muffler

PHOTO FOR REFERENCE ONLY



## Technical Data

Output Frequency	60 Hz
Rated Speed	1800RPM
Prime Power	20KVA/16KW
Standby Power	22KVA/18KW
Rated Voltage	208/120V
Phase	3
Power Factor	0.8
Fuel Consumption (g/KWh)	240
Operation Altitude	≤1500m
Ambient Temperature	≤50°C



## Dimension and Weight

Genset Type	Open Frame	Soundproof
Length(L) (mm)	1667	2100
Width(W) (mm)	800	800
Height(H) (mm)	1157	1130
Net Weight (kg)	624	810

## Engine Specification

Manufacturer / Model:	FAW 4DW81-28D, 4-cycle
Air Intake System:	Natural
Fuel System:	A model fuel pump
Cylinder Arrangement:	4 in line
Displacement:	2.27L
Bore and Stroke:	85*100 (mm)
Compression Ratio:	17:1
Rated RPM:	1800rpm
Max. Standby Power at Rated RPM:	22KW
Governor Type:	RSV Mechanical(Std) / Electronic (Optional)
Exhaust Gas Flow:	1.6m <sup>3</sup> /min
Exhaust Temperature:	550°C
Max Back Pressure:	6.5kPa
Burning Capacity:	2.2m <sup>3</sup> /min
Air Flow:	90m <sup>3</sup> /min
Total Oil Capacity:	7.8L
Oil Consumption:	0.05 L/h
Total Coolant Capacity:	6L

## Alternator Specification

Manufacturer / Model:	AGG KI 164DA Like STAMFORD
Number of Phase:	3
Connecting Type:	3 Phase and 4 Wires, "Y" type connecting
Number of Bearing:	1
Protection Grade:	IP23
Exciter Type:	Brushless, self-exciting
Insulation Class, Temperature Rise:	H/H
Telephone Influence Factor (TIF):	<50
THF:	<2%
Voltage Regulation, Steady State:	≤±1%
Alternator Capacity:	22 KVA
Air Cooling Flow:	0.108m <sup>3</sup> /s

## Control System

### Standard Deepsea DSE6020 Auto Mains Failure Control Panel

- Manual or Auto Start Module for single genset applications. Designed to work with electronic and non-electronic engines, providing advanced engine monitoring and protection features.
- Includes a back-lit icon LCD display which shows the status of the engine at all times. Monitors engine speed, frequency, voltage and run hours and also displays the warning and shutdown status.
- Includes extensive outputs and inputs making this product ideal for a wide variety of applications. It can either be programmed using the front panel or by using DSE PC software.



### Optional Deepsea DSE7320 Auto Mains Failure Control Panel

- Auto Mains (Utility) Failure Control Module suitable for a wide variety of single genset applications.
- Displays warnings, shutdown and engine status info on the back-lit LCD screen, illuminated LEDs, remote PC. Monitors the mains (utility) supply. Includes USB, RS232 and RS485 ports for system expansion.
- Compatible with electronic and non-electronic engines and offer flexible inputs, outputs and engine protections to meet extensive industry requirements.
- Includes enhanced event and performance monitoring, remote communications to reduce engine wear. It can either be programmed using the front panel or by using DSE PC software.



### Optional Deepsea DSE8610 Auto Paralleling Control Panel

- Synchronizing Auto Start Control Module for multi-genset load share system, designed to synchronize up to 32 gensets including electronic and non-electronic engines.
- Monitors the genset and indicates operational status and fault conditions, automatically starting or stopping the engine on load demand or fault condition.
- System alarms are annunciated on the LCD screen, illuminated LED and audible sounder.
- Records 250 events log for maintenance. Extensive monitoring, metering and protection features are included as well as comprehensive communication and system expansion options.
- Using DSE PC Software allows alteration of the operational sequences, timers, alarms with all communication ports active.





# Diesel Generating Set AC&CC-AF18



## Options

### Engine

- Water Jacket Preheater
- Water Separator
- Oil Pump
- Oil Preheater
- Battery Charger

### Fuel System

- Daily Fuel Tank
- External Fuel Tank
- Auto Fuel Filling System
- Fuel Level Sensor

### Control System

- Auto Remote Control Panel
- AMF Function Control Panel
- Auto Paralleling Control Panel
- Auto Transfer Switch (ATS)
- ABB breaker

### Alternator

- Anti Condensation Heater
- Permanent Magnet Generator
- Winding Temp Sensor

### Enclosure

- Rainproof Type
- Soundproof Rental Type
- Mobile Type

### Available Voltages

- 380V,400V,460V,480V(L-L)
- 208V,220V,230V,240V(L-L)

## Reference Standards

**Generator Set:** ISO 8528, CE

**Engine:** ISO 3046, BS 5514, DIN 6271

**Alternator:** BS EN 60034, IEC34, BS5000, NEMA MG1-32, VDE 0530, CSA C22.2-100, AS1359

## Warranty

AC&CC provides a full line of brand new and high quality products. Each and every unit is strictly factory tested.

Warranty is according to our standard conditions: 12 months or 1000 running hours (accumulated); subject to the earlier one, counted on the day AC&CC sold to the first buyer.

Service and spare parts are available from AC&CC or distributors in your location.