

MODEL	FE-DW680
Standby Power (50Hz)	675KW / 748KVA
Prime Power (50Hz)	544KW / 680KVA

Standard Features

General Features:

- Engine (DOOSAN DP222LB)
- Radiator 40°C max, fans are driven by belt, with safety guard
- 24V charge alternator
- Alternator: single bearing alternator IP21, insulation class H/H
- Absorber
- Dry type air filter, double fuel filter, oil filter, coolant filter
- Main line circuit breaker
- Standard control panel
- Two 12V batteries, rack and cable
- Ripple flex exhaust pipe, exhaust siphon, flange, muffler
- User manual



Generator Ratings

Voltage	HZ	Phase	P.F (COS ϕ)	Standby Amps	Standby Ratings (KW/KVA)	Prime Ratings (KW/KVA)
440/254	50	3	0.8	997	675/748	544/680
415/240	50	3	0.8	1057	675/748	544/680
400/230	50	3	0.8	1097	675/748	544/680
380/220	50	3	0.8	1155	675/748	544/680

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97 (eqv ISO8528) ; A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

Standby Power Rating (ESP): The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

ENGINE DATA

Manufacturer / Model:	DOOSAN DP222LB, 4-cycle
Air Intake System:	Turbo, Air/Air cooling
Fuel System:	BOSCH P type fuel pump
Cylinder Arrangement:	12 in "v"
Displacement:	21.927L
Bore and Stroke:	128×142 (mm)
Compression Ratio:	15
Rated RPM:	1500rpm
Max. Standby Power at Rated RPM:	664KW/903HP
Governor Type:	Electronic

Exhaust System

Exhaust Gas Flow:	101m ³ /min
Exhaust Temperature:	481°C
Max Back Pressure:	5.9kPa

Air Intake System

Max Intake Restriction:	6.23kPa
Consumption:	42.2m ³ /min
Air Flow:	860m ³ /min

Fuel System

100%(Standby Power) Load:	147.1L/h
75%(Standby Power) Load:	109.2L/h
50%(Standby Power) Load:	73L/h

Oil System

Total Oil Capacity:	40L
Oil Consumption:	≤575g/h
Engine Oil Tank Capacity:	27L

Cooling System

Total Coolant Capacity:	114L
Thermostat:	71-85°C
Max Water Temperature:	103°C

ALTERNATOR SPECIFICATION**GENERAL DATA**

Compliance with GB755, BS5000, VDE0530, NEMAMG1-22, IED34-1, CSA22.2 and AS1359 standards.

Alternator Data

Number of Phase:	3
Connecting Type:	3 Phase and 4 Wires, "Y" type connecting
Number of Bearing:	1
Power Factor:	0.8
Protection Grade:	IP21
Altitude:	≤1000m
Exciter Type:	Brushless, self-exciting
Insulation Class, Temperature Rise:	H/H
Telephone Influence Factor (TIF):	< 50
THF:	< 2%
Alternator Capacity:	750KVA
Alternator Efficiencies:	93.3%

GENERATING SET DATA

Voltage Regulation:	≥±5%
Voltage Regulation, Stead State:	≤±1%
Sudden Voltage Warp (100% Sudden Reduce):	≤+25%
Sudden Voltage Warp (Sudden Increase):	≤-20%
Voltage Stable Time (100% Sudden Reduce):	≤6S
Voltage Stable Time (Sudden Increase)	≤6S
Frequency Reduce:	≤5% Adjustable
Frequency Waving:	≤0.5%
Sudden Frequency Warp (100% Sudden Reduce):	≤+12%
Sudden Frequency Warp (Sudden Increase):	≤-10%
Frequency Recovery Time (100% Sudden Reduce):	≤5S
Frequency Recovery Time (Sudden Increase):	≤5S

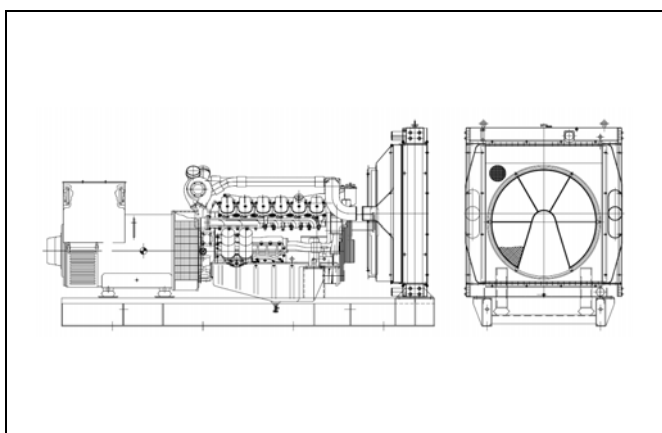
Standard Features

- ◇ Standard Auto Control System
- ◇ Starting batteries (Maintenance-Free & Watering-Free) with connective wires
- ◇ Documents
- ◇ MCCB
- ◇ Oil Drain Valve
- ◇ One set of fuel filter / oil filter
- ◇ Exhaust System(including until muffler)

Options

- ◇ Base Fuel Tank
- ◇ Daily Fuel Tank
- ◇ Battery Charger
- ◇ Engine Heater
- ◇ Alternator Heater
- ◇ Permanent Magnet Generator(PMG)
- ◇ Rainproof Type
- ◇ Soundproof Type
- ◇ Trailer Type
- ◇ Water Separator
- ◇ Remote Control Panel
- ◇ Automatic Transfer Switch
- ◇ Paralleling System
- ◇ Switch box
- ◇ Spare Parts

Dimension & Weight

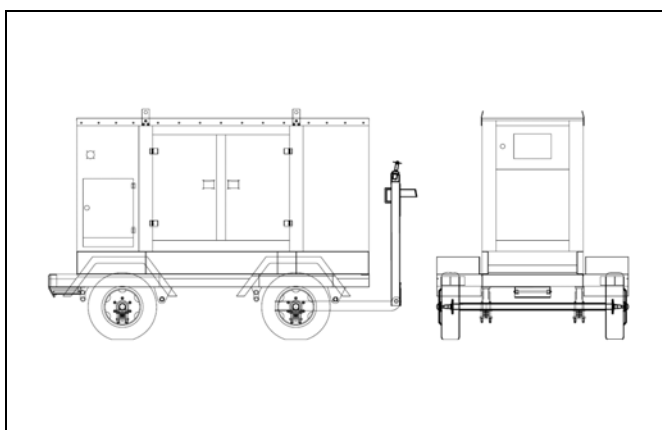


Standard Configuration (Open Type)

Overall Size:3480 (mm) ×1390 (mm) ×1820 (mm)
Weight: 4500kg

With Base Fuel Tank

Overall Size:3480 (mm) ×1390 (mm) ×1950 (mm)
Weight: 4550kg



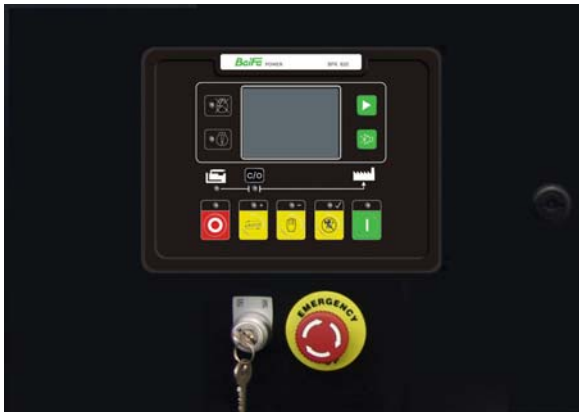
Soundproof Type

Overall Size:5030 (mm) ×1660 (mm) ×2250 (mm)
Weight: 6000kg

Trailer Type

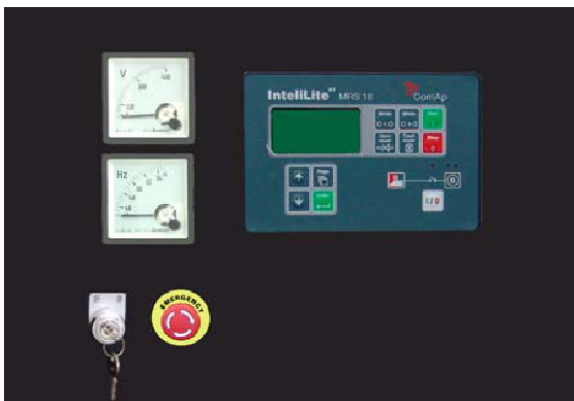
Overall Size:5840 (mm) ×2540 (mm) ×3100 (mm)
Weight: 7700kg

Standard Control Panel



Standard Control Panel uses micro processing technique integrating digital, intelligent and network techniques which can carry out functions including auto start/stop, data measure, alarming. The controller uses LCD display, optional English display interface with operation easy and reliable. It can be widely used in all types of generator automatic control system for compact structure, advanced circuits, simple connections and high reliability

Auto Module Control Panel



Auto Module Control Panel is the configuration for nobody on duty controlling generators. This kind of panel adopts auto module control system, with large LCD display to show the menu.

Features: MRS10-can receive remote output signal from ATS and realize auto start and stop of generators.

MRS16-can realize all functions of MRS10, add RS232 interface which can communicate with PC to realize remote operation.

AMF25-Auto Mains Failure controller, can realize all functions of MRS16, furthermore can detect ATS and control directly.

Auto Parallel Control Panel



Automatic Parallel Control Panel This new automatic parallel system adopts intelligent modules, inserted and folded installed, no need the peripheral relay and logic circuit. The main switch adopts electronic breaker or frame breaker, combined together with the generator, which is very reliable. One generator, one panel. The panel can be used both for singly and parallel. It is only need to parallel generator with such panel when the capability needs to be enlarged in the future.