



DUNLOP PAWA 22kVA

50Hz 1500RPM 18kW/22kVA



General Features

- Low noise/super silent canopy design
- Forklift pockets available
- Residential silencer with flexible exhaust pipe
- MCCB & maintenance-free starting battery
- External fuel inlet, coolant drain, oil drain
- External power outlet distribution available
- Bunded base with 24-hour base fuel tank @75% load
- 50°C Radiator as standard spec;
- Radiator fan is driven by belt with safety guard
- Vibration isolators between engine/alternator and base frame
- All-round protection functions and safety labels
- User manual of engine, alternator, controller

Generator Ratings

Voltage	Hz	Phase	P.F (COS φ)	Prime Amps	Prime Ratings(kW/kVA)	Standby Ratings(kW/kVA)
240	50	1	0.8	88	17/21	18/22

- Prime Power: Continuous running at variable load for unlimited periods; 10% overload available for 1 hour in every 12 hours.
- Standby power: Continuous running at variable load in the event of a utility power failure; No overload is permitted on these ratings.

Sales Promise

DUNLOP provides a full line of brand new and high quality products.

Each unit is strictly factory tested before delivery.

Warranty is according to below standard conditions, subject to the earlier one:

- 12 months after shipment
- 1000 accumulated running hours

Service and parts are available for the generator life time from **DUNLOP**



Engine

Manufacturer / Model	DCEC/4B3.9-G11
Air Intake System	4 Cycle, Naturally Aspirated
Fuel System	WF A/RSV
Number of Cylinders / Cylinder Arrangement	4 in Line
Displacement (L)	3.9 L
Bore x Stroke (mm x mm)	102x120
Compression Ratio	18.0:1
Rated Speed (RPM)	1500
Standby Power @ Rated Speed (kW)	22
Speed Governor	Mechanical
Fuel Consumption @ 100% Load (L/h)	5.7
Fuel Consumption @ 75% Load (L/h)	4.6
Fuel Consumption @ 50% Load (L/h)	3.7
Fuel Consumption @ 25% Load (L/h)	2.4
Total Oil Capacity (L)	10.9
System Voltage (V)	DC 24

Alternator

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

Exciter Type	Single bearing, Brushless, Self-excited
Rated Output Prime Power (kVA)	20
Rated Speed (RPM)	1500
Rated Frequency (Hz)	50
Phase	1
Power Factor	0.8
Voltage Adjust Range	≥5%
Voltage Regulation NL-FL	≤±1%
Insulation Class / Temperature Rise	H / H
Protection Grade	IP23

Main Electrical Performance

Voltage				Frequency			
Stable Regulation Rate	Fluctuation	Recover Time	Instantaneous Regulating Rate	Stable Regulation Rate	Instantaneous Regulating Rate	Recover Time	Fluctuation
+/-2.5%	0.5%	1.5s	+20%/-15%	+5%	+/-10%	5s	0.5%

Control System

We use famous and reliable controller brands such as DEEPSEA, COMAP & SMARTGEN.

Protection		Parameter		
• Low Oil Pressure	• Over Crank	• Volt	• Oil Pressure	
• Over Speed	• Over / Low Volt	• Current	• Oil Temp.	
• Over Load		• Power	• Power Factor	
• Over / Low Frequency		• Speed	• Running Time	
• Battery Charge Failure		• Frequency	• Water Temp.	
• High Water Temp.			• Battery Voltage	

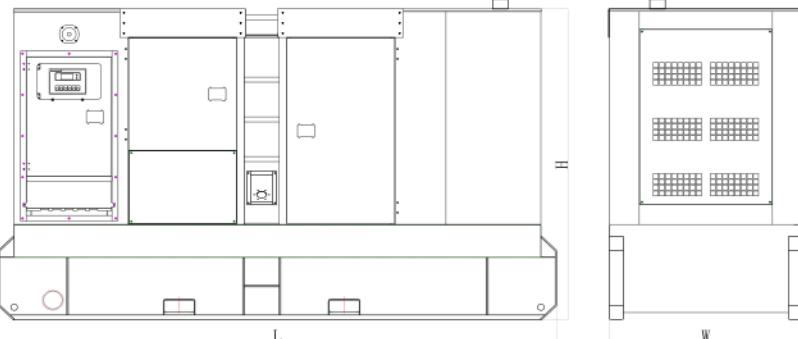


DSE 4520

Dimension & Weight

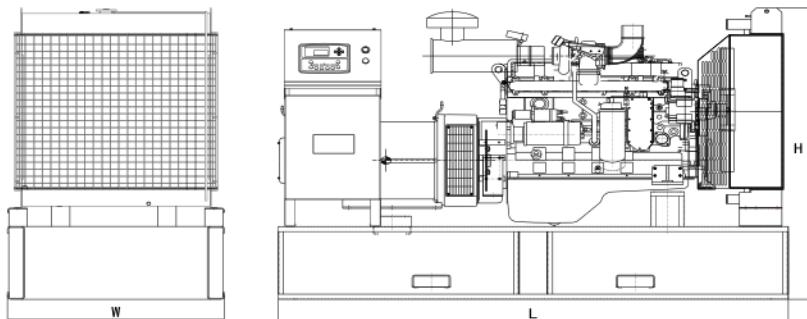
Canopy Type (DP 22kVA)

Lenght	2400mm
Width	1000mm
Height	1645mm
Weight	1460KG



Open Type (DP 22kVA)

Lenght	N/A
Width	N/A
Height	N/A
Weight	N/A



Generator Spare Parts Options

Generator Set

- Trailer generator set
- ABB MCCB circuit breaker
- Rental Type heavy-duty canopy
- Hot-dip galvanized skid base

Alternator

- PMG excitation
- Anti Condensation Heater
- RTD for alternator AC windings

For Cold Area

- Water heater
- Oil heater
- Fuel heater
- Electronic space heater

Exhaust System

- Residential exhaust silencer
- Stainless steel exhaust pipe
- Emission after-treatment system

Fuel System

- 12 hours base fuel tank
- 24 hours base fuel tank
- Double bunded base fuel tank
- Outside fuel tank

Auto System

- Remote Control panel
- ATS control cabinet
- Paralleling System