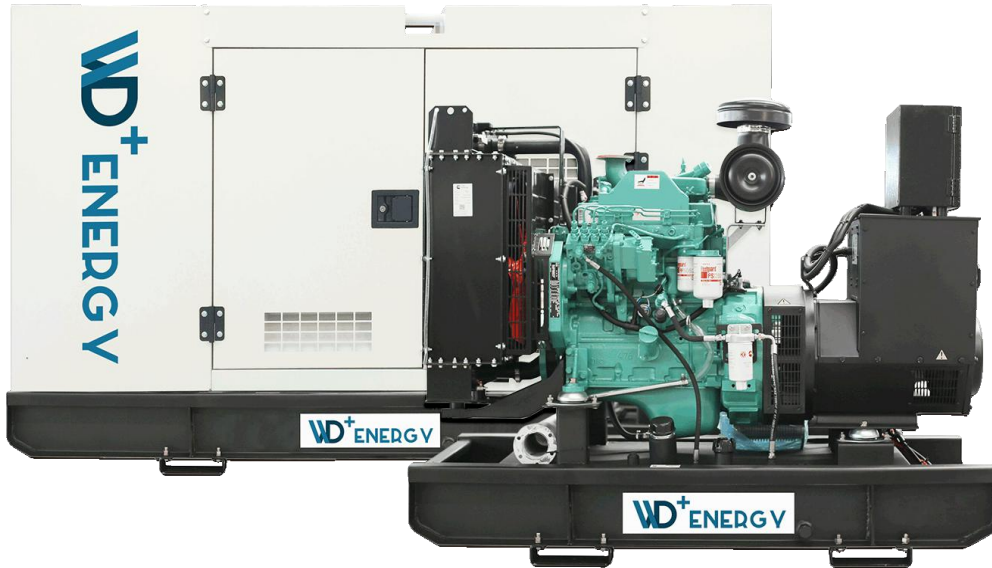


Model:WD220C/S

400V|50Hz|3Phase|Pf.:0.8



## GENERATOR SPECIFICATION

ESP <sup>(1)</sup> Standby Power	220 kVA 176 kW	PRP <sup>(2)</sup> Prime Power	200 kVA 160 kW
Engine	DCEC 6CTAA8.3-G2	Alternator	WD <sup>+</sup> WD274H

### Power Definition

(1) ESP (Standby Power):

The standby power rating is applicable for supplying emergency power in variable load applications in accordance with ISO 8528-1. Overload is not allowed

(2) PRP (Prime Power):

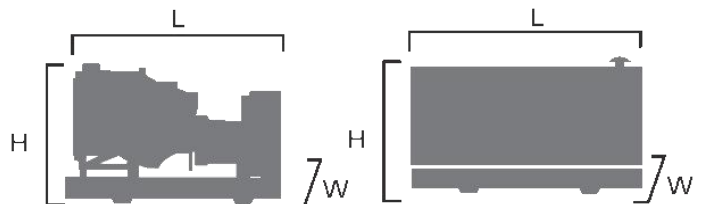
Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1.

### Standard Reference Condition

Note: Standard reference condition 25°C[77°F] air inlet temp, 1000m(328ft) A.S.L 30% relative humidity. Fuel consumption data with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998, Class A2

## GENERAL FEATURES

Dimension		Open	Silent
Length(L)	mm	2450	3500
Width(W)	mm	950	1260
Height(H)	mm	1650	1900
New Weight	kg	1700	2400
Fuel Tank	L	≤400	≤450



**Model:WD220C/S**

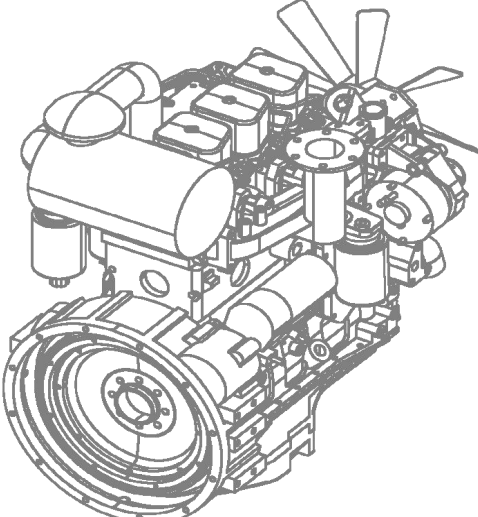
**400V|50Hz|3Phase|Pf.:0.8**

### GENERATOR RATINGS

Voltage	Hz	Phase	PF	Standby	Standby Ratings		Prime Ratings	
			COS Φ	Amps	kVA	kW	kVA	kW
440 /254	50	3	0.8	288.7	220	176	200	160
415 /240	50	3	0.8	306.1	220	176	200	160
400 /230	50	3	0.8	317.6	220	176	200	160
380 /220	50	3	0.8	334.3	220	176	200	160

Also available in the following voltages: 415/240V-380/220V-220/127V-200/115V; or other optional voltage please refer to rating table.

### ENGINE SPECIFICATION

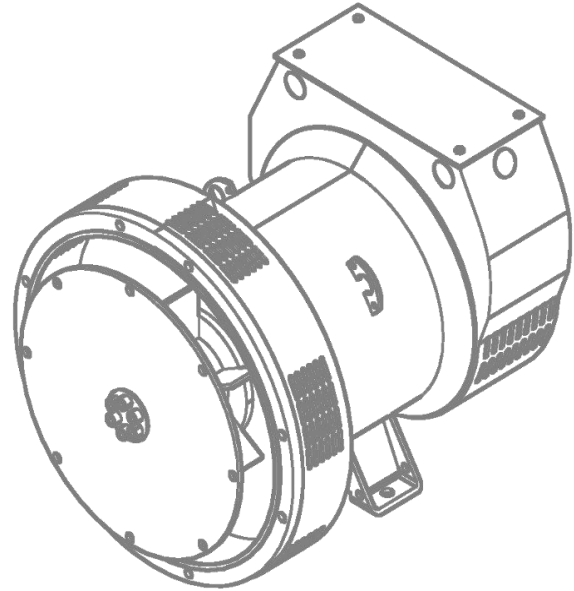
General Engine Data			
Manufacturer	Cummins		
Engine Model	6CTAA8.3-G2		
Structure Type	6 Cylinder,4-Stroke, In-line,Water-cooled, Direct Injection		
Bore×Stroke	114x135 mm		
Displacement	8.3L		
Compression ratio	18.0:1		
Standby Power	203kW/272hp		
Prime Power	183kW/245hp		
Rated Rotation Speed	1500 RPM		
Aspiration	Turb&Charge Air Cooled		
Speed Control Tye	Electronic	Fuel Consumption	
Coolant Capacity- Engine Only	12.3L	Consumption @100% load ESP	51.0 L/H
Lubricating System	Pressure Splashed	Consumption @100% load PRP	45.0 L/H
Lubricant Grade	Above CD or SAE 10W-30、 15W-40	Consumption @75% load PRP	34.0 L/H
Lubricant Capacity	27.6L	Consumption @50% load PRP	23.0 L/H
Starter System	24V Electric System	Consumption @25% load PRP	13.0 L/H
Cranking Motor Capacity	24V	Engine Options	
Charging Generator Capacity	28V 40A	<input type="checkbox"/> Water Jacked Heater <input type="checkbox"/> Radiator Water Level Sensor <input type="checkbox"/> Oil Heater <input type="checkbox"/> Heavy Duty Air Filter	
Fuel Grade	0# (Summer), -10# (Winter), -35#(Cold)		

**Model:WD220C/S**

**400V|50Hz|3Phase|Pf.:0.8**

### ALTERNATOR SPECIFICATION

General Alternator Data	
Manufacturer	WD <sup>+</sup>
Alternator Model	WD274H
Standby Output	176kW/220kVA
Prime Output	160kW/200kVA
Number of phase	3
Power factor (Cos Φ)	0.8
Poles	4
Winding Connections(Standard)	Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Altitude	≤1000m
Excitation system	Self-excited
Bearing	Single bearing
Voltage regulator	A.V.R
Couping	Flexible disc
Voltage Regulation,Steady State	±1%
Telephone Influence Factor	< 50
Sudden Voltage Warp (100% Sudden Reduce)	±1%
Sudden Voltage Warp(Sudden Increase)	±25%
Voltage Stable Time (100% Sudden Reduce)	≤6S
Voltage Stable Time (Sudden Increase)	≤6S
Frequency Reduce	0-5% adjustable
Frequency Regulation,Stead State	≤1.5%
Frequency Waving	≤0.8%
Sudden Frequency Warp (100% Sudden Reduce)	≤+12%



General Alternator Data	
Sudden Frequency Warp(100% Sudden Increase)	≤-10%
Frequency Recovery Time (100% Sudden Reduce)	≤5S
Frequency Recovery Time (Sudden Increase)	≤5S
Alternator Options	
○ Winding Temp Measuring Instrument	
○ Alternator Pre-heater	
○ PMG	
○ Anti-damp and Anti-corrosion Treatment	
○ Anti-condensation Heater	
○ Winding and bearing RTD	

## CONTROLLER SPECIFICATION

Function		WD <sup>+</sup> PLC1.0		WD <sup>+</sup> PLC2.0		WD <sup>+</sup> PLC3.0	
		HGM 6110N	HGM 6120N	DSE7310 MKII	DSE7320 MKII	DSE8610 MKII	DSE8620 MKII
		Standard	Option	Standard	Option	Standard	Option
Manufacturer		SMARTGEN		DEEPSEA			
AMF		×	●	×	●	Auto Start	●
ECU		○	○	●	●	●	●
Communication Port		USB		RS232/485/USB		RS232/485/USB/ Ethernet	
Monitor Function	Generator Set Voltage	●	●	●	●	●	●
	Generator Set Current	●	●	●	●	●	●
	Generator Set Frequency	●	●	●	●	●	●
	Generator Set Speed	●	●	●	●	●	●
	Generator Set Output Power	●	●	●	●	●	●
	Generator Set Power Factor	●	●	●	●	●	●
	Generator Set Run Hours	●	●	●	●	●	●
	Oil Pressure	●	●	●	●	●	●
	Water Temperature	●	●	●	●	●	●
	Battery Voltage	●	●	●	●	●	●
	Fuel Level	●	●	●	●	●	●
	Mains Voltage	×	●	×	●	●	●
	Mains Frequency	×	●	×	●	●	●
	Mains Current	×	●	×	●	●	●
	Synchronising	×	×	×	×	●	●
	Mains Parallel Operation	×	×	×	×	●	●
Protection	Low Oil Pressure	●	●	●	●	●	●
	Water Temperature High	●	●	●	●	●	●
	Over Speed	●	●	●	●	●	●
	Battery Charge Failure	●	●	●	●	●	●
	Reverse Power	×	×	×	×	●	●
Application		×	AMF+ATS	×	AMF+ATS	Multiple Island or Single Parallel to Mains	Single Parallel to Mains

● Standard ○ Optional × Impossible

STANDARD FEATURES	GENERATOR SET OPTIONS
● Standard Auto Control System WD+ PLC1.0	<input type="checkbox"/> Tools Box
● Emergency Stop Button	<input type="checkbox"/> Extended Range Daily Fuel Tank
● Exhaust System (Including Muffler)	<input type="checkbox"/> Spare Parts
● Operation and Maintenance Manual	
● Oil Drain Valve	
● Starting Batteries (Maintenance-free with Connective Wires)	<b>CONTROL SYSTEM OPTIONS</b>
● Special Tools	<input type="checkbox"/> Remote Control System
● Base Fuel Tank	<input type="checkbox"/> Battery Charger
● MCCB	<input type="checkbox"/> Automatic Transfer Switch
	<input type="checkbox"/> Synchronizing System
	<input type="checkbox"/> Adjustable Ear th Leakage Relay

FUE SYSTEM OPTIONS
<input type="checkbox"/> Fuel-Water Separator
<input type="checkbox"/> Low Fuel Level Alarm
<input type="checkbox"/> Automatic Fuel Feeding System
<input type="checkbox"/> Fuel T-valves

CANOPY OPTIONS
<input type="checkbox"/> Rental Type Canopy
<input type="checkbox"/> Containerized Canopy
<input type="checkbox"/> Telecom Base Canopy
<input type="checkbox"/> Trailer

LUB OIL SYSTEM OPTIONS
<input type="checkbox"/> Oil Pre-heater
<input type="checkbox"/> Oil Tempuratuere Sensor
<input type="checkbox"/> Oil Drain Pump

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