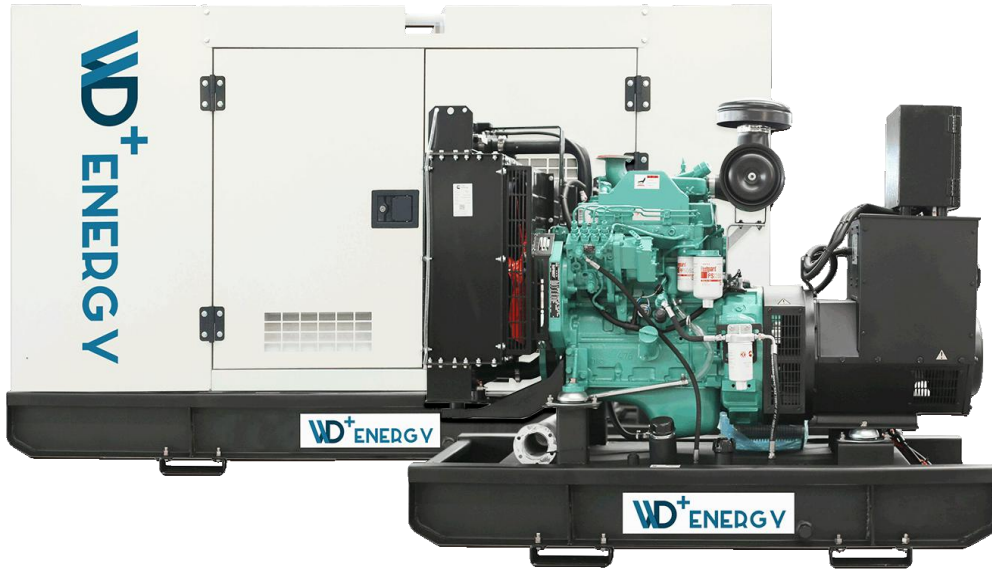


Model:WD413C/S

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



## GENERATOR SPECIFICATION

ESP <sup>(1)</sup> Standby Power	413 kVA 330 kW	PRP <sup>(2)</sup> Prime Power	375 kVA 300 kW
Engine	DCEC 6ZTAA13-G3	Alternator	WD <sup>+</sup> WD314F

### 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):

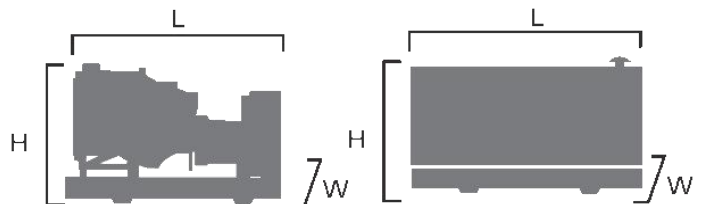
Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1.

### 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	3250	4500
Width(W)	mm	1400	1700
Height(H)	mm	2100	2100
New Weight	kg	2825	4300
Fuel Tank	L	≤700	≤750



**Model:WD413C/S**

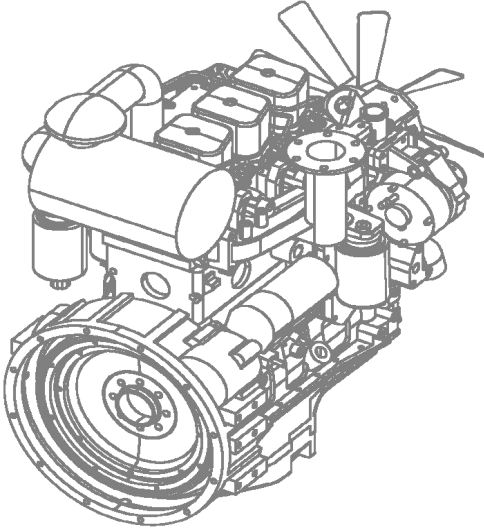
**400V|50Hz|3Phase|Pf.:0.8**

### GENERATOR RATINGS

Voltage	Hz	Phase	PF	Standby	Standby Ratings		Prime Ratings	
			COS $\Phi$	Amps	kVA	kW	kVA	kW
440 /254	50	3	0.8	541.3	412.5	330	375	300
415 /240	50	3	0.8	573.9	412.5	330	375	300
400 /230	50	3	0.8	595.4	412.5	330	375	300
380 /220	50	3	0.8	626.7	412.5	330	375	300

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

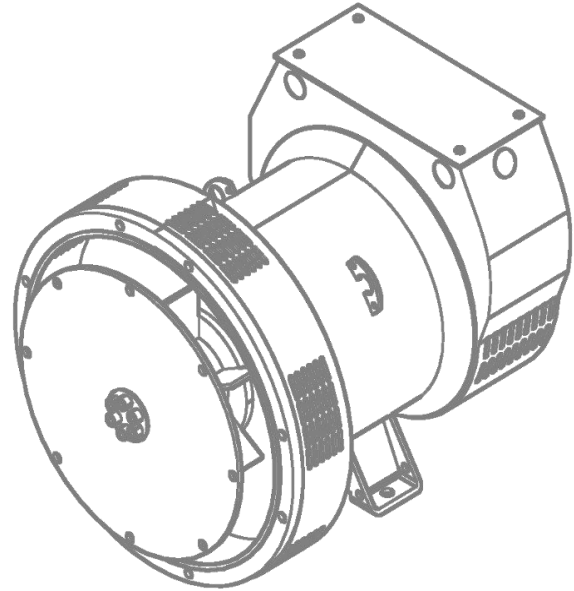
General Engine Data					
Manufacturer	Cummins				
Engine Model	6ZTAA13-G3				
Structure Type	6 Cylinder,4-Stroke, In-line,Water-cooled, Direct Injection				
BorexStroke	130x163 mm				
Displacement	13.0L				
Compression ratio	17.0:1				
Standby Power	380kW/515hp				
Prime Power	340kW/456hp				
Rated Rotation Speed	1500 RPM				
Aspiration	Turbo&Charge Air Cooled				
Speed Control Tye	Electronic			Fuel Consumption	
Coolant Capacity- Engine Only	23.1L			Consumption @100% load ESP	86.9 L/H
Lubricating System	Pressure Splashed			Consumption @100% load PRP	76.5 L/H
Lubricant Grade	Above CD or SAE 10W-30、 15W-40			Consumption @75% load PRP	56.5 L/H
Lubricant Capacity	45.42L	Consumption @50% load PRP	38.0 L/H		
Starter System	24V Electric System	Consumption @25% load PRP	20.9 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:WD413C/S**

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

## ALTERNATOR SPECIFICATION

General Alternator Data	
Manufacturer	WD <sup>+</sup>
Alternator Model	WD314F
Standby Output	330kW/412.5kVA
Prime Output	300kW/375kVA
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**

- Standard Auto Control System WD+ PLC1.0
- Emergency Stop Button
- Exhaust System (Including Muffler)
- Operation and Maintenance Manual
- Oil Drain Valve
- Starting Batteries (Maintenance-free with Connective Wires)
- Special Tools
- Base Fuel Tank
- MCCB

**GENERATOR SET OPTIONS**

- Tools Box
- Extended Range Daily Fuel Tank
- Spare Parts

**CONTROL SYSTEM OPTIONS**

- Remote Control System
- Battery Charger
- Automatic Transfer Switch
- Synchronizing System
- Adjustable Ear th Leakage Relay

**FUE SYSTEM OPTIONS**

- Fuel-Water Separator
- Low Fuel Level Alarm
- Automatic Fuel Feeding System
- Fuel T-valves

**CANOPY OPTIONS**

- Rental Type Canopy
- Containerized Canopy
- Telecom Base Canopy
- Trailer

**LUB OIL SYSTEM OPTIONS**

- Oil Pre-heater
- Oil Tempuratuere Sensor
- Oil Drain Pump

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