

GENERATOR SET|TECHNICAL DATA SHEET

Model:WD165C/S

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



GENERATOR SPECIFICATION

ESP ⁽¹⁾	165 kVA	PRP ⁽²⁾	150 kVA			
Standby Power	132 kW	Prime Power	120 kW			
Fueine	DCEC	Alternator	WD^+			
Engine	6BTAA5.9-G12	Anternator	WD274F			

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 abailanle 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 dat with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998, Class A2

GENERAL FEAT	TURES	_	
Dimension		Open	Silent
Length(L)	mm	2400	3200
Width(W)	mm	900	1100
Height(H)	mm	1500	1680
New Weight	kg	1300	1800
Fuel Tank	L	≤280	≤300



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GENERATOR RATINGS								
W -14	Hz	Phase	PF Standby Stand		Standby	Ratings	Prime Ratings	
Voltage		rnase	COSΦ	Amps	kVA	kW	kVA	kW
440 /254	50	3	0.8	216.5	165	132	150	120
415 /240	50	3	0.8	229.6	165	132	150	120
400 /230	50	3	0.8	238.2	165	132	150	120
380 /220	50	3	0.8	250.7	165	132	150	120

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	I				
General Engine Data					
Manufacturer	Cummins		Σ [7]		
Engine Model	6BTAA5.9-G12				
Structure Type	6 Cylinder,4-Stroke, In-line,Water-cooled, Direct Injection				
Bore×Stroke	102x120 mm				
Displacement	5.9 L				
Compression ratio	17.3:1		0		
Standby Power	155kW/207hp				
Prime Power	140kW/187hp				
Rated Rotation Speed	1500 RPM				
Aspiration	Turbo&Charge Air Cooled				
Speed Control Tye	Electronic	Fuel Consumption			
Coolant Capacity- Engine Only	7.9L	Consumption @100% load ESP	38.0 L/H		
Lubricating System	Pressure Splashed	Consumption @100% load PRP	34.0 L/H		
Lubricant Grade	Aboved CD or SAE	Consumption @75% load PRP	26.0 L/H		
Lubricant Grade	10W-30、15W-40	Consumption @50% load PRP	17.0 L/H		
Lubricant Capacity	16.4L	Consumption @25% load PRP	10.0 L/H		
Starter System	24V Electric System	Engine Options			
Cranking Motor Capacity	24V	• Water Jacked Heater			
Charging Generator Capacity	28V 40A	• Radiator Water Level Sensor			
Fuel Grade	0# (Summer), -10#	• Oil Heater			
	(Winter), -35#(Cold)	• Heavy Duty Air Filter			

WEDOPLUS

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ALTERNATOR SPECIFICATION

General Alternator Data						
Manufacturer	WD^+	0				
Alternator Model	WD274F	000				
Standby Output	141kW/181.5kVA					
Prime Output	128kW/160kVA					
Number of phase	3					
Power factor (Cos Φ)	0.8					
Poles	4					
Winding Connections(Standard)	Star-serie		and the second second			
Terminals	12					
Insulation type	H class					
Winding Pitch	2/3					
IP rating	IP23					
Altitude	≤1000m					
Excitation system	Self-excited					
Bearing	Single bearing	General Alternator Data				
Voltage regulator	A.V.R	Sudden Frequency Warp(100%	≤ -10%			
Couping	Flexible disc	Sudden Increase)	5-10%			
Voltage Regulation, Steady State	≤±1%	Frequency Recovery Time	≤5S			
Telephone Influence Factor	<50	(100% Sudden Reduce)	200			
Sudden Voltage Warp (100%	≤±1%	Frequency Recovery Time	≤5S			
Sudden Reduce)	/	(Sudden Increase)				
Sudden Voltage Warp(Sudden	≤±25%	Alternator Options				
Increase)		\circ Winding Temp Measuring Instrument				
Voltage Stable Time (100%	≤6S	• Alternator Pre-heater				
Sudden Reduce)		○ PMG				
Voltage Stable Time (Sudden	≤6 S	\circ Anti-damp and Anti-corrosion Treatment				
Increase)	crease)		• Anti-condensation Heater			
Frequency Reduce	0-5% adjustable	\circ Winding and bearing RTD				
Frequency Regulation,Stead State	≤1.5%					
Frequency Waving	≤ 0.8 %					
Sudden Frequency Warp (100% Sudden Reduce)	≤+12%					



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CONTROLLER SPECIFICATION

		WD ⁺ PLC1.0		WD ⁺ PLC2.0		WD ⁺ PLC3.0		
	Model	HGM	HGM	DSE7310	DSE7320	DSE8610	DSE8620	
Function		6110N	6120N	MKII	MKII	MKII	MKII	
		Standard	Option	Standard	Option	Standard	Option	
Manufac	turer	SMAR	SMARTGEN		DEEPSEA			
AMF		×	•	×	•	Auto Start	•	
ECU		0	0	•	•	•	•	
Cummu	nication Port	U	USB		RS232/485/USB		RS232/485/USB/ Ethernet	
	Generator Set Voltage	•	•	•	•	•	٠	
	Generator Set Current	•	•	•	•	•	•	
	Generator Set Frequency	•	•	•	•	•	•	
	Generator Set Speed	•	•	•	•	•	٠	
	Generator Set Output Power	•	•	•	•	•	•	
uc	Generator Set Power Factor	•	•	•	•	•	•	
Ictic	Generator Set Run Hours	•	•	•	•	•	•	
Generator Set Power Factor Generator Set Run Hours Oil Pressure Water Temperature Battery Voltage Fuel Level		•	•	•	•	•	•	
		•	•	•	•	•	•	
Battery Voltage Fuel Level	Battery Voltage	•	•	•	•	•	•	
	Fuel Level	•	•	•	•	•	٠	
	Mains Voltage	×	•	×	•	•	•	
	Mains Frequency	×	•	×	•	•	٠	
	Mains Current	×	•	×	•	•	•	
	Synchronising	×	×	×	×	•	•	
	Mains Parallel Operation	×	×	×	×	•	•	
	Low Oil Pressure	•	•	•	•	•	•	
ion	Water Temperature High	•	•	•	•	•	•	
tect	Over Speed		•	•	•	•	•	
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



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

FUE SYSTEM OPTIONS

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

CANOPY OPTIONS

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

LUB OIL SYSTEM OPTIONS

- Oil Pre-heater
- \circ Oil Tempuratuer Sensor
- Oil Drain Pump

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