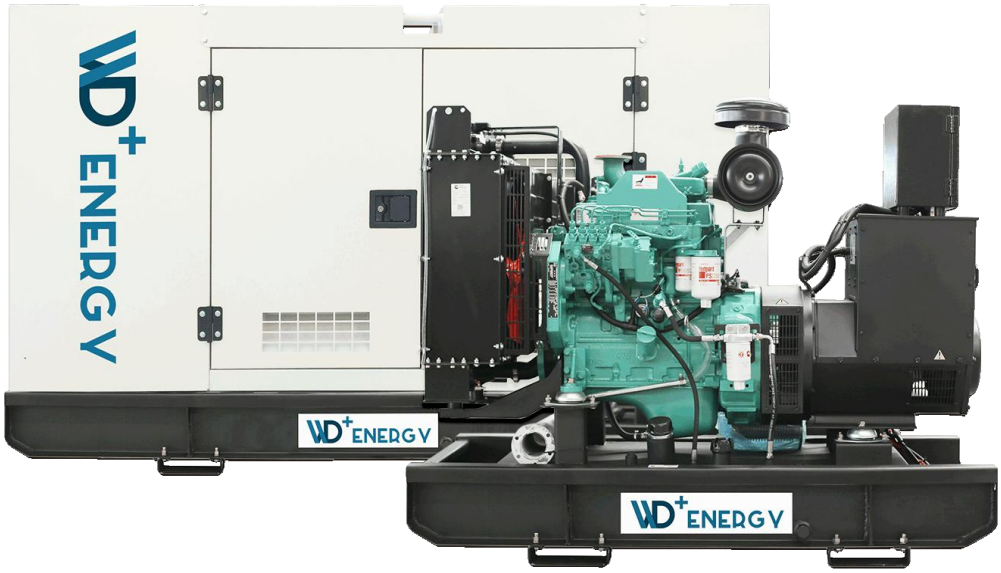
GENERATOR SET|TECHNICAL DATA SHEET

Model:WD495C/S

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



GENERATOR SPECIFICATION

ESP(1) Standby Power	495 kVA 396 kW	PRP(2) Prime Power	450 kVA 360 kW
Engine	DCEC 6ZTAA13-G2	Alternator	WD+ WD354C

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):

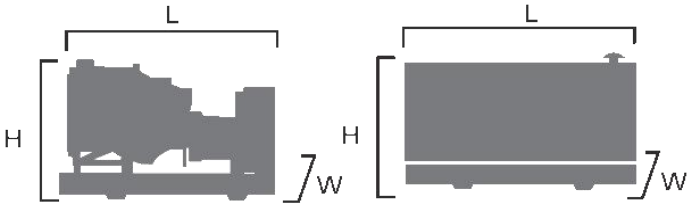
Prime Power is abailanle for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1.

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 FEATURES

Dimension		Open	Silent
Length(L)	mm	3250	4500
Width(W)	mm	1400	1700
Height(H)	mm	2100	2230
New Weight	kg	3080	4500
Fuel Tank	L	≤700	≤750



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Model:WD495C/S

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

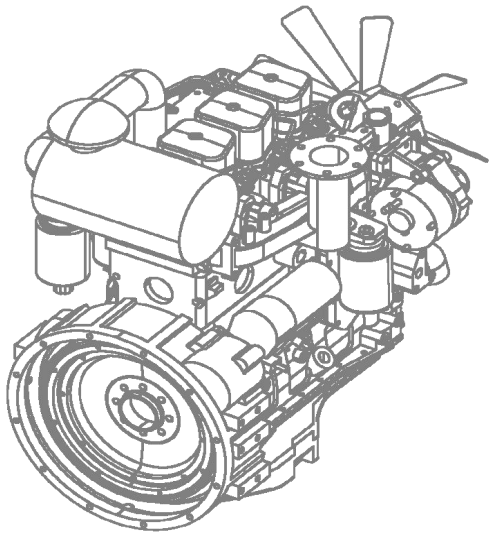
GENERATOR RATINGS

Voltage	Hz	Phase	PF	Standby	Standby Ratings		Prime Ratings	
			COSΦ	Amps	kVA	kW	kVA	kW
440 /254	50	3	0.8	649.5	495	396	450	360
415 /240	50	3	0.8	688.7	495	396	450	360
400 /230	50	3	0.8	714.5	495	396	450	360
380 /220	50	3	0.8	752.1	495	396	450	360

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-G4
Structure Type	6 Cylinder,4-Stroke, In-line,Water-cooled, Direct Injection
Bore×Stroke	130x163 mm
Displacement	13.0L
Compression ratio	17.0:1
Standby Power	415kW/557hp
Prime Power	400kW/537hp
Rated Rotation Speed	1500 RPM
Aspiration	Turbo&Charge Air Cooled
Speed Control Tye	Electronic
Coolant Capacity- Engine Only	23.1L
Lubricating System	Pressure Splashed
Lubricant Grade	Aboved CD or SAE 10W-30、15W-40
Lubricant Capacity	45.42L
Starter System	24V Electric System
Cranking Motor Capacity	24V
Charging Generator Capacity	28V 40A
Fuel Grade	0# (Summer), -10# (Winter), -35#(Cold)



Fuel Consumption	
Consumption @100% load ESP	95.8 L/H
Consumption @100% load PRP	91.4 L/H
Consumption @75% load PRP	66.8 L/H
Consumption @50% load PRP	44.3 L/H
Consumption @50% load PRP	24.2 L/H

Engine Options
○ Water Jacked Heater
○ Radiator Water Level Sensor
○ Oil Heater
○ Heavy Duty Air Filter

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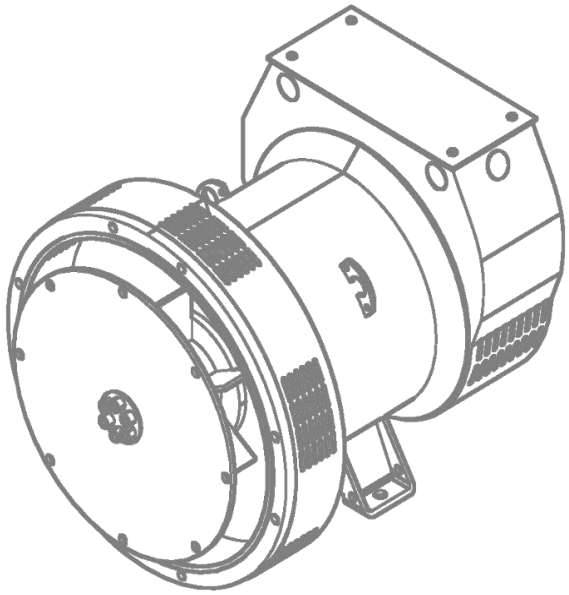
Model:WD495C/S

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

ALTERNATOR SPECIFICATION

General Alternator Data	
Manufacturer	WD+
Alternator Model	WD354C
Standby Output	396kW/494kVA
Prime Output	360kW/450kVA
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

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CONTROLLER SPECIFICATION

Function \ Model		WD+ PLC1.0		WD+ PLC2.0		WD+ 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		○	○	●	●	●	●
Cummunication 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

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STANDARD FEATURES	GENERATOR SET OPTIONS
● Standard Auto Control System WD+ PLC1.0	○ Tools Box
● Emergency Stop Button	○ 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 Wires	○ Remote Control System
	○ Battery Charger
● Special Tools	○ Automatic Transfer Switch
● Base Fuel Tank	○ Synchronizing System
● MCCB	○ 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 Tempuratuer Sensor
○ Oil Drain Pump

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