

Land Based Genset - 16M55 Series

WPG2540 / WPG2800 / WPG3000 / WPG3300

3300-4125kVA, 2640 -3300kWe LTP



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Engine

- Weichai / Baudouin 16M55 series, 16-V cylinder, 4 stroke, radiator cooled engine
- Well-designed air handling system with
 - Dry type, Replaceable paper element air cleaner with restriction indicator
 - Air to water after cooling
 - High efficiency, large heat area intercooler, reduce the air temperature after the intercooler
- Fuel system with Electrical Control Unit
- Standard integral set-mounted radiator system, designed and tested for 50°C ambient temperature
- First fill of lube oil and coolant
- Electrical starter motor with soft start engagement feature
- Intelligent fuel injection technology to start fast guarantee
- Battery charging alternator
- 6 x 12 V DC batteries

Alternator

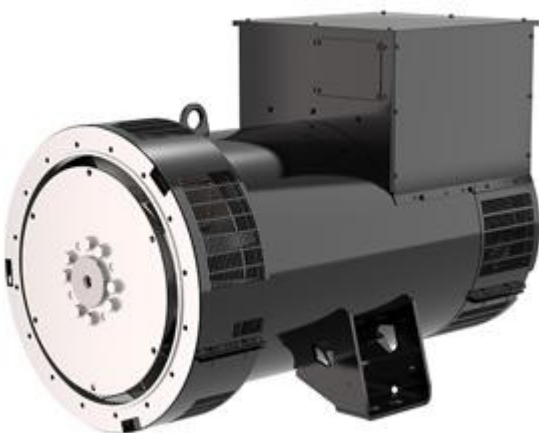
- Brushless type, Screen protected, Revolving field, Self excited alternator conforming to IS/IEC 60034-1
- Best in class efficiency
- Steel casing
- Compact design with sealed bearings for longer life and lesser maintenance
- IP23 standard protection level
- Impregnation on all wound components for better mechanical strength

Control Module Specifications

The DSE 7320 is an Auto Mains Failure Control Module

- Back-lit LCD display
- 3 Phase generator and 3 Phase Mains monitoring
- Monitoring speed, frequency, voltage, current, oil pressure, coolant temperature and fuel level
- Display warning, shutdown and engine status information
- Hours counter provides accurate information for monitoring and maintenance

LEROY-SOMER™



DSE®



Technical Data

Generator Set Specification

Model	WPG2640*76	WPG2800*76	WPG3000*76	WPG3300*76
Standby Rating kVA/kWe	3300/2640	3500/2800	3750/3000	4125/3300
Prime Rating kVA/kWe	3000/2400	3200/2560	3300/2640	3700/3000
Voltage V	440/254	440/254	440/254	440/254
Frequency Hz	60	60	60	60
Power Factor	0.8(lagging)	0.8(lagging)	0.8(lagging)	0.8(lagging)
No. of Phases	3	3	3	3

Engine specification

Make	Baudouin	Baudouin	Baudouin	Baudouin
Mode	16M55G2640/6	16M55G2800/6	16M55G3000/6	16M55G3300/6
Rated Speed	1800	1800	1800	1800
Prime Power	2710	2870	2930	3300
Cooling System	Liquid cooled	Liquid cooled	Liquid cooled	Liquid cooled
Governor	ECU	ECU	ECU	ECU
Aspiration	Turbocharged and aftercooled	Turbocharged and aftercooled	Turbocharged and aftercooled	Turbocharged and aftercooled
No. of cylinders	16,V-Type	16,V-Type	16,V-Type	16,V-Type
Bore (mm) x Stroke (mm)	180x215	180x215	180x215	180x215
Displacement (L)	87.5	87.5	87.5	87.5
Fuel consumption@75%(L/h)	475	505	512	580
Fuel consumption@100%(L/h)	635	675	686	775
Starting system	24VDC ECU	24VDC ECU	24VDC ECU	24VDC ECU
Total lub. system capacity (L)	480	480	480	480
Total coolant capacity (L)	950	950	950	950
Cooling fan airflow (m ³ /min)	3200	3200	3500	3500
Exhaust Temperature (°C)	460	475	482	500
Recom. Airflow@PRP (m ³ /min)	190	201	206	232
Exhaust back pressure (mBar)	≤75	≤75	≤75	≤75
Radiator design temp. (C°)	50	50	50	50

Alternator specification

Make	LEROY-SOMER	LEROY-SOMER	LEROY-SOMER	LEROY-SOMER
Alternator Frame	LSA53.2 M7	LSA53.2 M9	LSA53.2 M9	LSA53.2 M12
Exciter Type	AREP	AREP	AREP	AREP
Enclosure	IP23	IP23	IP23	IP23
Voltage regulation	±1%	±1%	±1%	±1%
Class of Insulation	H	H	H	H
Winding Pitch	2/3	2/3	2/3	2/3
Rotor	Double bearing	Double bearing	Double bearing	Double bearing

Remarks

Prime Rating: These ratings are applicable for supplying continuous electrical power (at variable load) in the lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

Standby Rating: These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous tested (as defined in ISO 8528-3).

Standard Reference Conditions

Note: Standard reference conditions 25°C(77°F) Air Inlet Temp, 100m(328 ft) A.S.L. 30% relative humidity. Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2.

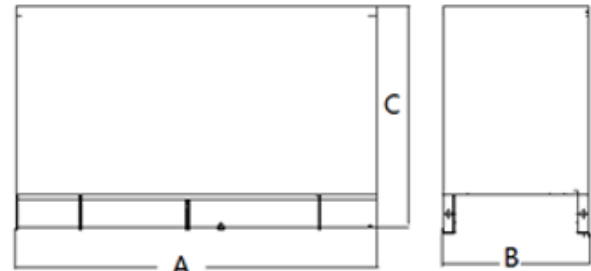
Genset Dimensions (B: Open Series without Fuel Tank / C: Container mounted Series)

Genset Mode	Prime Rating (kVA)	Length A(mm)	Width B(mm)	Height C(mm)	Weight (kg)	Standard Fuel tank Capacity (L)
WPG2640B76	3000	8200	2900	3700	31000	/
WPG2800B76	3200	8200	2900	3700	31500	/
WPG3000B76	3300	8200	2900	3700	32500	/
WPG3300B76	3750	8200	2900	3700	33000	/
WPG2640C76	3000	15000	3500	4600	52000	1000
WPG2800C76	3200	15000	3500	4600	52500	1000
WPG3000C76	3300	15000	3500	4600	53500	1000
WPG3300C76	3750	15000	3500	4600	54000	1000

Open genset



Enclosed genset



Sales Promises

Each and every unit is strictly factory tested.

Warranty time: Prime duty 1 year or 1000Hours. Stand-by duty 2 years or 1000 hours.

Service and parts are available from Weichai Power or distributors in your location.

Distributed By:



Manufacturer: Weichai Heavy Machinery Co., Ltd
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www.weichaihm.com

