

**WEICHA**

WPG500

# WEICHAI GEN-SETS DATASHEET



Gen-set specifications	
Model	WPG500*76
Standby Rating kVA/kWe	625/500
Prime Rating kVA/kWe	560/450
Voltage V	220/127
Frequency Hz	60
Power Factor	0.8(lagging)
No. of Phases	3
Fuel consumption@25%/ 50% / 75%(L/h)	35.3 / 61.8 / 90.7
Fuel consumption@100% / 110% (L/h)	122.8 / 138.2
Sound@1m (dB·A)	Open≤105 ; Silence ≤95
Ambient temp (°C)	-10~45
Gen-set regulation class	ISO 8528-5 G2
Steady-state voltage deviation	≤±2.5%
Transient voltage deviation (100% sudden power decrease/increase)	≤+25% ; ≤-20%
Steady-state frequency band	≤1.5%
Transient frequency deviation from rated frequency (100% sudden power decrease/increase)	≤+12% ; ≤-10%

Standard Features		
◆ Electronic governor	◆ DC24V Electric starter	◆ Deep-sea 7320MKII
◆ Closed water-cooled	◆ IP23	◆ H type insulation
◆ Air filter	◆ Muffler	◆ Circuit Breaker
◆ Starting batteries	◆ with connective wires	◆ Radiator
◆ Oil Drain Valve	◆ Forklift Groove	◆ Shock Absorber
◆ Color Weichai blue (B,F) / beige canopy and black chassis (L) / white (C)		
◆ Packaging packing case(B,F) / plastic wrap (L) / no packaging (C)		

Options		
Line Voltage 380V/415V	Line Voltage 440V/480V	Voltage 6.3kV/10.5kV /13.8kV
Single Voltage 220V/230V	Automatic Transfer Switch	Automatic Parallel system
Engine Heater (water)	Engine Heater (air inlet)	Alternator heater
External fuel tank 1000L/1500L	PMG/ AREP	

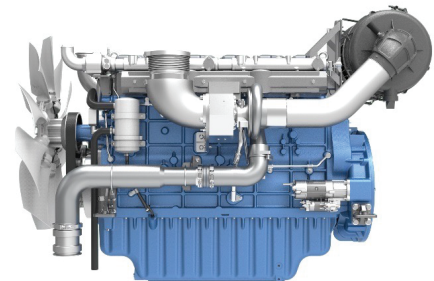
## Control Module Specifications

- The DSE 7320 MKII 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



## ENGINE

- Weichai 6M26 series, 6 cylinder, in-line 4 stroke, radiator cooled engine
- Well-designed air handling system with
  - Dry type, Replaceable paper element air cleaner with restriction indicator
  - Air to air after cooling
  - Optimized turbocharger for increased altitude capabilities
  - High efficiency, large heat area intercooler, reduce the air temperature after the intercooler
- Fuel system with A1 class electronic governing
- Radiator
- Electrical starter motor with soft start engagement feature
- Intelligent fuel injection technology to start fast guarantee
- Battery charging alternator



## ALTERNATOR

- Brushless type, Screen protected, Revolving field, Self excited alternator conforming to 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



## Engine specifications

Make	WEICHAI
Mode	6M26G500/6
Rated Speed r/min	1800
Prime Power kW	506
Overload power kW	556
Cooling	Liquid cooled
Governor	Electronic
Aspiration	Turbocharged and Aftercooled
No. of cylinders	6, in-line
Bore (mm) x Stroke (mm)	150x150
Displacement (L)	15.9
Starting system	24VDC
Total coolant capacity (L)	123.7
Total lubrication system capacity (L)	52
Cooling fan airflow (m <sup>3</sup> /min)	1000
Exhaust Temperature (°C)	≤750
Recommended air flow @ PRP (m <sup>3</sup> /min)	37.5
Exhaust back pressure (mBar)	≤75
Radiator design temperature (°C)	50

## Alternator specifications

Make	LEROY-SOMER
Alternator Frame	TAL A47 C
Exciter Type	Self-excitation
Enclosure	IP23
Voltage regulation	≤±1%
Class of Insulation	H
Winding Pitch	2/3
Rotor	Single bearing

## REMARKS

**Prime power(PRP)**

Prime power is defined as being the maximum power which a generating set is capable of delivering continuously while supplying a available electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufactures.

The permissible average power output, over 24h of operation shall not exceed 70% of the PRP unless otherwise agreed by the RIC engine manufacturer.

**Emergency standby power(ESP)**

Emergency standby power is defined as the maximum power available during a available electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200h of operation per year with the with the maintenance intervals and procedures being carried out as prescribed by the manufactures.

The permissible average power output, over 24h of operation shall not exceed 70% of the ESP unless otherwise agreed by the RIC engine manufacturer.

## Standard Reference Conditions

Note: Standard reference conditions 25 (77 )Air Inlet Temp, 100m(328 ftA.S.L. 30% relative humidity.

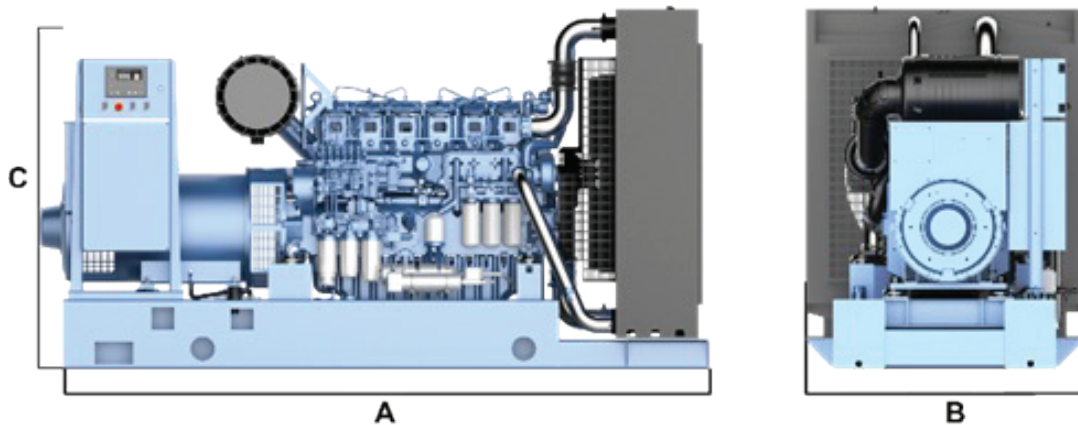
Standard operating environment: ambient temperature is 5 ~40 ,the altitude is less than 1000m,the relative humidity is less than 90%(25 ),and there is no dust, sand dust, salt fog, mold, condensation environment, etc.

If the operating environment exceeds the above requirements, please contact the factory and consult.

## Typical Enclosed Genset Dimensions

	Rated POWER (KW)	Length A (mm)	Width B (mm)	Height C (mm)	Wet Weight* (Kg)	Standard Fuel Tank Capacity (L)
WPG500F76	450	3757	1500	2015	4500	500
WPG500L76	450	5100	2000	2250	7200	650

# Open genset



# Enclosed genset

