

ANT ENERGY GEN-SETS DATASHEET

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Gen-set specifications

Model	WPG75B (L) 9NG
Prime Rating kVA/kWe	75/60
Continual Rating kVA/kWe	63/50
Voltage V	400/230
Frequency Hz	50
Power Factor	0.8(lagging)
No. of Phases	3
Sound@7m (dB(A))	Open : ≤99 dB (A) ; Silence : ≤85 dB (A)
Ambient temp (°C)	-10 ~ 40 (If < -10 , oil and water heating; If > 40 , power correction)
Altitude(m)	≤1000
Fuel	Pipeline natural gas ; MN≥80
Gas supply pressure(bar)	Max. inlet 2bar (Special pressure, contact with company)
Steady-state voltage deviation	≤±2.5%
Transient voltage deviation (100% sudden power decrease/50% increase)	+25% ~ -20%
Voltage steady time(s)	6
Steady-state frequency band	≤1.5%
Transient frequency deviation from rated frequency (100% sudden power decrease/50% increase)	100% sudden power decrease ≤ +12% ; 50% sudden power increase ≤ -20%
Frequency steady time(s)	5

Standard Features

◆ ECU	◆ DC24 Electric starter	◆ DSE6120MKIII
◆ 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)/beige canopy and black chassis (L)	
◆ Packaging	Packing case(B)/Wrapping sheet(L)	

Options

◇ Voltage 380V/400V	◇ Voltage 415V/440V	◇ Voltage 6.3kV/10.5kV /13.8kV
◇ Single Voltage 220V/230V/240V	◇ Automatic Transfer Switch	◇ Automatic Parallel system
◇ Engine Heater (water)	◇ Engine Heater (oil)	◇ Alternator heater
◇ PMG/AREP		

- Well-designed air handling system with
 - Air cleaner
 - Replaceable paper element air cleaner with restriction indicator
 - Optimized turbocharger for increased altitude capabilities
 - High efficiency, large heat area intercooler, reduce the air temperature after the intercooler
- NG gas regulator
- NG gas filter
- Standard integral set-mounted radiator system, designed and tested for 40°C ambient temperature
- Electrical starter motor with soft start engagement feature
- Intelligent fuel injection technology to start fast guarantee
- Battery charging alternator
- 24 V DC batteries



- 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 DSE6120MKIII 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
- Display warning, shutdown and engine status information
- Hours counter provides accurate information for monitoring and maintenance



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Engine specifications			
Make	WEICHAI		
Mode	WP4D77E300NG		
Rated Speed r/min	1500		
Prime Power kW	70		
Cooling	Close Liquid cooled		
Governor	ECU		
Aspiration	Turbocharged, Inter-cooled		
No. of cylinders	4, in-line		
Bore (mm) x Stroke (mm)	105x130		
Displacement (L)	4.5		
Starting system	24VDC Electrical		
Total coolant capacity engine/tank (L)	5.3/8.0		
Radiator design temperature (°C)	40		
Lubrication system capacity (L)	18		
Load rate (%)	100	75	50
Fuel consumption (kg/h)	15.06	9.68	7.95
Engine high water heat quantity(kJ/s)	55.0	38.0	32.0
Engine high water flow(m ³ /h)	3.44	3.44	3.44
Engine high water inlet/outlet Tem. (°C)	64.2/77.2	/	/
Engine high water inlet/outlet Pre. (kPa)	13.6/37.5	/	/
Exhaust gas heat quantity(kJ/s)	56.59	35.09	28.78
Exhaust gas flow (kg/h)	352.46	212.68	170.95
Exhaust Temperature (°C)	540	520	530
Exhaust back pressure (mbar)	75		
Exhaust Temperature after recycle(°C)	Heating water120/0.5Mpa steam 190/1MPa steam 220		

Alternator specifications	
Make	WEICHAI or LERYSOMER
Alternator Frame	WHA-75-4/0.4 or TAL A44 C
Exciter Type	Self-excitation
Enclosure	IP23
Voltage regulation	≤ ±1%
Class of Insulation	H
Winding Pitch	2/3
Rotor	Single bearing

Remarks

Prime Rating (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.

Continual Rating (COP):

These ratings are applicable for supplying continuous electrical power (at 100% load) in the event of a utility power failure. There is no limitation to the annual hours of operation under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed.

Standard Reference Conditions

Standard operating environment: ambient temperature is -10°C~40°C, the altitude is less than 1000m,the relative humidity is less than 90%(25°C) and there is no dust\stand dust\salt fog\mold\condensation environment, etc.

Fuel consumption data at full load with gas fuel with specific gravity of 0.726 kg/N m3and low calorific value of 47.9 MJ/kg.

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

Typical Genset Dimensions

Genset Model	Length A(mm)	Width B(mm)	Height C(mm)	Wet Weight (kg)	Note
WPG75B9NG	2000	930	1373	1350	
WPG75L9NG	2890	1070	1730	1840	

Note: This size cannot be used for design, for design, please contact with company.

Open genset

Silence genset

