

Soundproof /Open type Diesel Generating Sets



INDUSTRIAL RANGE

Powered by: PERKINS









★★Generating Rates★★

POWER RATING		RPIME /STANDBY	
POWER	KVA	150/165	
	KW	120/132	
RATED SPEED	RPM	1500	
STANDARD VOLTAGE	V	230/400	
AVAILABLE VOLTAGE	V	254/440 240/415 230/400 220/380	
RATE AT POWER FACTOR	COS Phi	0.8	

Ambient conditions of reference: 1000 mbar, 25°C, 30% relative humidity. Power according to ISO 3046 Normative.

P.R.P. Prime Power - ISO 8528-1: prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals.

The permissible average power output during a 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

Available continuously at variable load in lieu of commercially purchased power for an unlimited number of hours per year in accordance with ISO8528-1, and an overload of 10% permitted for one hour in every twelve hours of operation in accordance with ISO 3046-1

Standby Power (ISO 3046-1 Fuel Stop power): power available for use at variable loads for limited annual time (500h), within the following limits of maximum operating time: 100% load 25h per year − 90% load 200h per year. No overload available. Applicable in case of failure of the main in areas of reliable electrical network. Emergency Standby Power in variable load applications in accordance with ISO8528-1 in the event of a utility power failure. No overload available for this service as relevant alternators are peak continuous rated at 27°C.





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Model: WPK-165

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★★PERKINS engine Specifications 1500/1800Rpm★★

Engine Model	1006TAG2		
Number Of Cylinders &Type	4 stroke, vertical, in-line, 6-cylinder		
Engine Speed	1500 r.p.m or 1800 r.p.m.		
Bore x Stroke (mm)	100mm x 127mm		
Rated Speed (Rpm)	1500		
Cont. Output (kw/hp)	129.3kw/174hp		
Max .Output (Kw)	143kw/193hp		
Starting System	Electric		
Direction of Rotation	Clockwise, form the front		
Cooling Method	Water-cooled		
Starting Battery	2 X 20V/60Ah		
Displacement (L)	5.99L		
Compression Ratio	17.0: 1		
IN taking Method	Turbocharged Air to Air charge cooled		
Brake Mean Effective Pressure	1852-2007kPa		
Piston Speed	6.35m/S		
Combustion Air Flow	10.7M ³ /min		
Engine Coolant Flow	140L/min		
	Fuel Consumption at 100% standby power 45Liters/hour		
Specific fuel consumption	Fuel Consumption at 100% Prime power 41Liters/hour		
Specific fuel consumption	Fuel Consumption at 75% Prime power 31 Liters/hour		
	Fuel Consumption at 50% Prime power 20Liters/hour		
Governing Method	Mechanical		
Lubricant system capacity	19Litres		
Fuel tank capacity	Open type Genset 8-12 Hours at full load / silent type 620 Liters		
Steady speed regulation	≤5%		
Instantaneous speed regulation	≤10%		
Time required to steady speed	≤5%		
Fluctuation rate of speed	±0.5%		
Air Filter (type)	Dry		
PTO. Flanges			





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★★PERKINS engine Specifications 1500/1800Rpm (2)★★

ENGINE--Industrial 4 strokes cooled diesel engine complete with air, fuel and oil filters, electric Starting and charging equipment, engine protection against low water level.

COOLING--Radiator and cooling fan complete with protection guards, designed to cool engine at specified output in air temperatures up to 45 °C, radiators suitable for higher temperatures are Available Low water level protection fitted as standard.

ELECTRICAL SYSTEM--24V up to .Axial type starter motor, battery charging alternator, high capacity Lead acid battery and battery tray mounted on the generator base frame, and heavy duty Interconnecting cable with termination

EXHAUST SYSTEM--Heavy duty industrial exhaust silencer with flexible piping.







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★★Alternator Technical Specifications★★

Alternator Brand	Leroy Somer	Stamford
Model	LAS44.2M95	UC1274F
Exciter System	Self-Excited, Brushless	
Phase	3phases and 4wires.	
Cooling Fan	Cast alloy aluminum	
Bearing	Single, double shielded	
Windings	100% copper	
Insulation Type	Class: H	
Connection Type	Reconnect able	
Pitch	2/3	
Amortisseur Winding	Full	
Voltage Regulator	Automatic voltage adjustment A.V.R (ELECTRONIC)	
Steady Voltage Precision	±1%	
Underspeed Protection	Standard	
Over excitation Protection	IP23	
TIF (1960 Weightings)	<50	



ALTERNATOR--Brushless, self-exciting, self-regulation, screen- protected, Drip proof rated in Accordance with IEC60034. Voltage regulation maintained within ±0.5% from no load to full load. Between 0.8 lagging and unity. All standard voltages available.



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★★Control Panel Technical Specifications★★

Control Panel---GRT168

The base mounted control panel in a vibration isolated sheet steel enclosure. The control panel is equipped as follows:

- A) Instruments: Analogue Voltmeter, Hours Run Meter. Water pressure Meter.
- B) Control module: Standard collocation is GRT168 Auto start with ATS
- C) Controls: Emergency Stop Pushbutton, Voltmeter Phase Selector Switch

Main Features:

Automatic mains failure

Engine control, Generator protection

Built in alarms and warnings

Remote Start operation available

Daily / weekly / monthly exerciser

Weekly operation schedule programs

Fuel pump control

Mains simulation

Block heater control

Field adjustable parameters

Free MS-Windows Remote monitoring

LED displays

Configurable analogue inputs

I/O expansion capability

ECU control and monitoring via J1940 CANBUS



Protection Circuits

Warning

Battery charge failure

Low battery voltage

Shut downs

Fail to start

Emergency stop

Low oil pressure

High engine temperature

Over/Under speed

Electrical trip

Generator over current

Under/Over generator

frequency

Failed to reach loading

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Instruments

Engine

Engine speed

Oil pressure

Coolant temperature

Run time

Battery volts

Tor

Voltage: L-N

Current L1-L2-L3

Frequency

Mains

Voltage: L-L, L-N



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★★Generating Sets Standard Features★★

Three phase four wires, output voltage 400V/230V, 50HZ or 60HZ, between 0.8 and 1.0 laggings, protection capability, Brushless, According with the standard of NAME1 and IP23

★ General Features



- 1. Composed of PERKINS diesel engine and Stamford or Leroy somer alternator
- 2. Oil and fuel filter fitted, water separator
- 3. Three phase four wire, output voltage 400V/230V, 50HZ/60HZ, between 0.8 laggings, protection capability
- 4. According with the standard of NAME1 and IP23.
- 5. Composed of PERKINS diesel engine and Stamford or Leroy somer alternator
- 6. Operation & Maintenance manual
- 7. Change load from 0-100%, within 1.0 %(electric speed regulator), within 4.5 %(mechanical speed regulator)
- 8. Lube-oil drain valve fitted
- 9. Electric Starter Charge motor 24 VD.C
- 10. Water-cooled
- 11. 8-hours operation base tank
- 12. Between 0.8 and 1.0 lagging and unity
- 13. Auto start
- 14. Optional soundproof and weatherproof canopy
- 15. Special Integrated Steel Base tank and sprayed overall in gloss enamel paint

★Voltage Regulation and Frequency Adjustable ratio:★

Voltage regulation maintained within±0.51%

Between 0.8 and 1.0 lagging and unity

From no load to full load

At speed droop variation upto 4.5%

Change load form 0-100%, within 1% (electric speed regulator), within 4.5% (mechanical speed regulator)

Frequency undulation:

Load form 0-100%, frequency undulation within 0.25%, No load wire volts max undulation ration within 1.8%

Three phase balance load in the order of 5%

Effect factor of telecom

TIF batter than 50

THF to IEC60034 Part 40 Batter than 2%

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★★Soundproofed Generator Version Features★★

★Robust Corrosion Resistant Construction★

- 1. Body made form steel components treated with polyester coating
- 2. Black finish stainless steel lock and hinges

★Excellent Access for maintenance★

- 1. Radiator fills access plate
- 2. Two large doors on each side
- 3. Lube oil and cooling water drains pipes to exterior of the enclosure

★Security and Safety★

- 1. Control panel viewing window in a lockable access door
- 2. Emergency stop push button (red) mounted on the enclosure interior
- 3. Cooling fan and battery charge alternator fully guarded
- 4. Exhaust silencing system totally enclosed for operator safely

★Generator Sets Optional Features★

- 1. Low fuel level, high temperature, low battery, over speed, over crank, run, auto shutdown
- 2. Automatic fuel filling system
- 3. Engine oil feeding and drain pump
- 4. Auto Transfers Switch (ATS)
- 5. Parallel control panels
- 6. Circuit Breaker MCCB&ACB
- 7. Remote control panel7
- 8. Weatherproof/Soundproof canopy, trailer type and open type, provides multiple options and alternatives

★Quality Standards★

ISO9001:2000, ISO3046, ISO14000, ISO8528, BS999, AS1359, ICE34, UL, CE and CCC.