

WGP-P65/S

Perkins Series

Features:

- Rotate speed governor: Mechanical governor
- Excitation system: Self excited, SHUNT
- A.V.R model: SX460
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 12V sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy (Only for Soundproofed sets)
- 50°C radiator
- Oil pump on the engine
- Steel base frame with fork holes
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for daily running
- Drain points for fuel tank
- Operation Manual / Specifications



Dimensions and Weights

Model	L	W	H
WGP-P65	1900	800	1350
WGP-P65S	2300	1100	1550

Output Ratings

Genset Model	Prime Power	Standby Power
WGP-P65	65kVA/52kW	72kVA/57kW
WGP-P65S	65kVA/52kW	72kVA/57kW

Ratings at 0.8 power factor

Notes:

*Prime Power

Continuous duty operation, under variable load 24/24h-10% over load

**Standby Power

Standby duty, operation under variable load, without over load;

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,

Ratings and Performance Data

Engine Model:	Perkins 1104A-44TG1
Alternator Brand:	Stamford
Alternator Model:	UCI 224E
Control System:	Auto Genset / AMF
Circuit Breaker Type:	3 Pole MCCB
Frequency & Phase:	50Hz & 3PH
Engine Speed: RPM	1500
Fuel Tank Capacity: L	
WGP-P60	10 hrs
WGP-P60S	10 hrs
Fuel Consumption: l/hr (100% Load)	
- Prime Power	13.9
-Standby Power	15.4

Engine Model: 1104A-44TG1 / 64.3kW@1500rpm

Cooling system

Radiator	
face area	0.276 m ²
rows and materials	1 rows, Aluminium
matrix density and material	12.5 fins/inch Alum
width of matrix	526 mm
height of matrix	524.2 mm
pressure cap setting	107 kPa
Estimated cooling air flow reserve	/

Fan

diameter	457 mm
drive ratio	1.25:1
number of blades	7
material	Composite
type	pusher

Coolant

Total system capacity	
with radiator	13 litres
without radiator	4.41 litres
Maximum top tank temperature	110°C
Max static pressure head on pump	30.4 kPa
Temperature rise across engine	7.5°C
Max permissible external system resistance	TBA kPa
Thermostat operation range	82 - 93°C
Recommended coolant:	50% anti freeze/ 50% water

Duct allowance

Maximum additional restriction (duct allowance) to cooling airflow and resultant minimum airflow

Ambient clearance 50% Glycol	Duct allowance Pa	m ³ /sec
/	/	/
/	/	/

Electrical system

alternator	65 amps, 12 V
starter motor	3KW, 12 V
Minimum cranking speed	105 rev/min

Cold start recommendations

Minimum starting temperature	Grade of engine lubricating oil	Battery specifications	
°C			
0	20W	660	1
-15	10W	660	1
-20	5W	660	1

Exhaust system

Maximum back pressure	10 kPa
Exhaust outlet size	/
horizontal	/
vertical	56 mm

Fuel system

Type of injection	Direct injection
Fuel injection pump	Rotary
Fuel injector	Multi-hole
Nozzle opening pressure	29.0 Mpa
Maximum particle size	25 microns

Fuel lift pump

type	Mechanical
flow/hour	120-150 litres/hr
pressure	30-75 kPa
Maximum suction head	0.8 m
Maximum static pressure head	20 kPa
Governor type	Electronic

Fuel specification

USA Fed Off Highway - EPA2D 89.330-96

Europe Off Highway - CEC RF-06-99

Note: For further information on fuel specifications and restrictions refer to the OMM Fuels section for this engine model

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Fuel consumption

Power rating		
g/kWh (litres/hr)		
110%	100%	75%
15.4	13.9	10.43

Induction system

Maximum air intake restriction	
clean filter	5 kPa
dirty filter	8 kPa
air filter type	Dry element type

Lubrication system

Lubricating oil capacity	
Maximum sump capacity	8.0 litres
Total system	8.31 liters
Minimum sump capacity	6.21 litres

Lubricating oil pressure

Minimum sump capacity	120 kPa
relief valve opens	415 - 470 kPa
at maximum no-load speed	276 - 414 kPa
Normal oil temperature	125°C
oil flow at rated speed	13 litres/min.