



Genset	
Model	JHP5-600GF
Voltage	230/400V
Frequency&Speed	50HZ;1500RPM
Prime Power	565kW/706kVA
Standby Power	627kW/784kVA

► Engine: Perkins 2806A-E18TTAG5

➤ Alternator: Stamford/Leroy Somer /Hengsheng

➤ Controller: DeepSea/SmartGen /DEIF/ComAp

Basic technical data
Number of cylinders 6 Cylinder arrangement Vertical inline Cycle 4 stroke Induction system Turbocharged, air-to-air charge cooling Compression ratio 14:1 Bore 145 mm Stroke 183 mm Displacement 18.1 litres Direction of rotation (when viewed from flywheel) Counter clockwise Firing order (number 1 cylinder furthest from flywheel) 1, 5, 3, 6, 2, 4
Weight of Electropa K 2361 kg Dry (estimated) 2367 kg Wet (estimated) 2477 kg
Overall dimensions, ElectropaK

Cyclic irregularity for engine standby power

Steady	state speed capability at constant load
Perfo	rmance
Withou	e sound pressure level for bare engine t inlet and exhaust at 1 metre (50Hz)
Note:	All data based on operation to ISO 3046/1:2002 standard reference conditions.
Note:	For engines operating in ambient conditions other than the standard reference conditions stated below, a suitable derate must be applied.
Note:	Derate tables for increased ambient temperature and/or

altitude are available, please contact Perkins Applications

Test conditions

Department.

Patinge

Air temperature	25°C
Barometric pressure	100 kPa
Relative humidity	30%
Air inlet restriction at maximum power (nominal)	5 kPa
Exhaust back pressure at maximum power (nominal)	8.5 kPa
Aftercooler restriction at maximum power (nominal)	12 kPa
Fuel temperature (inlet pump)	40°C
All ratings certified to within	

General installation

Moments of inertia

Centre of gravity, ElectropaK

Barren and Control	Units	1 500 rpm		1800 rpm	
Designation		Prime (50 Hz)	Standby (50 Hz)	Prime (60 Hz)	Standby (50 Hz)
Gross engine power	KWb	676	743	720	793
Gross BMEP	kPa	2997	3297	2680	2948
Mean piston speed	m/s		9.2	11	
ElectropaK nett e ngine power	kW	648	716	675	748
Engine coolant flow against 85 kPa restriction	litres/min	382		485	
Combustion air flow	kg/h	3885	4143	4551	4718
Combustion air flow (air inlet)	m²/min	58	62	68	71
Exhaust gas flow (maximum) at atmospheric pressure	m²/min	132	142	148	157
Exhaust gas temperature (turbo out maximum)	°C	464	474	433	455
Overall thermal efficiency	%	38		37.5	
T-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	kWe	616	680	642	710
Typical generator set electrical output (0.8 pf 25°C)	kVA	770	850	802	888
Assumed alternator efficiency	%	95			



Cooling system

Total coolant capacity

ElectropaK (with radiator)	109.5 Litres
ElectropaK (without radiator)	20.8 Litres
Maximum top tank temperature	97°C
Maximum static pressure head on pump	125 kPa
Temperature rise across engine	3°C
Maximum permissible external system resistance (50 Hz)	85 kPa
Maximum permissible external system resistance (60Hz)	95 kPa
Thermostat operation range	81°C to 92°C
Maximum static pressure head on pump Temperature rise across engine Maximum permissible external system resistance (50 Hz) Maximum permissible external system resistance (60Hz)	125 kPa 3°C 85 kPa 95 kPa

Radiator

Radiator face area	
Material and number of rows1 Row, A	Numinium
Material and fins per inch	8.5
Width of matrix	
Height of matrix	1610 mm
Pressure cap setting	103 kPa

Fan

Туре	Pusher
Diameter	1142 mm
Number of blades	6
Material	Composite
Drive ratio	0.92:1
Airflow at rated speed (50 Hz)	852 m³/min
Airflow at rated speed (60 Hz)	TBD m³/min

Recommended coolant

Recommended coolant: 50% anti freeze/50% water.

For details of recommended coolant specifications, please refer to the Operation and Maintenance Manual (OMM) for this engine model.

Duct allowance

Maximum additional restriction to cooling airflow and resultant minimum airflow					
Ambient clearance 50% Glycol Ductallowance (Pa) m²/sec					
50 (Hz)	60 (Hz)	50 (Hz)	60 (Hz)	50 (Hz)	60 (Hz)
52	TBD	125	125	14.2	TBD

- NEMAMG1.JIANGHAO, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling down stream circuit breakers to trip without collapsing the generator field.
- ♦ Self-ventilated and dripproof construction.
- ♦ Superior voltage waveform from two-thirds pitch windings and skewed stator.
- → Digital solid-state.volts-per-hertz voltage regulator with +1% no-load to full-load regulation.

Fuel system

Type of injection Unit injection
Fuel injection pump Not applicable
Fuel injectorMEUI
Nozzle opening pressure
Maximum particle size
Fuel lift pump type
Flow
Pressure
Maximum suction head27 kPa
Maximum static pressure head
Maximum fuel temperature at lift pump inlet
Maximum fuel filter service interval
Governor type Electronic
Speed control conforms to ISO 8528-5 class G3 steady state

Fuel specification

USAFed Off Highway	. Low Sulfur Diesel ≤ 500 PPM Sulfur
Europe Off Highway	. Low Sulfur Diesel ≤ 500 PPM Sulfur

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

Fuel consumption

Power	676 kWm@1500 rpm Prime		720 kWm @ 1800 rpm Prim	
rating %	g/kWh	litres/hr	g/kWh	litres/hr
25	208	48	214	56
50	194	81	197	90
75	192	118	198	130
100	200	162	206	178
110	202	179	206	196

Cold start recommendations

Minimum battery cold cranking amps

Minimum starting temperature	Grade of engine lubrication oil	SAEJ537 Cold Cranking amps	StartingAlds
-0°C	15W-40	1400	None
-5°C	15W-40	1400	Jacket Water Heater to 45°C
-10°C	15W-40	1400	Jacket Water Heater to 45°C
-15°C	00/-30	1400	Jacket Water Heater to 45°C
-20°C	00/-30	1400	Jacket Water Heater to 45°C
-25°C	0VV-30	1400	Jacket Water Heater to 45°C

Notes:

- · for cable sizes see applications and installation manual
- jacket water heater needed below 0°C

Alternator

Pole No.	4-Pole	
Exciter Type	Single bearing, Brushless,	
	Self-excited	
Power factor	0.8	
Voltage adjust range	≦ 5%	
Insulation Grade	H	
Protection Grade	IP23/22	
Phase / wire	3 phase 4 wires	



Control Panel









The control module gives digital readouts of:

Generator voltage;

Output frequency;

Engine speed;

Battery voltage;

Engine hours run.



Dimension:4400*1600*2200mm Weight:5500kg



Dimension:5800*2300*2500mm Weight:9400kg Fuel Tank Capacity:1200L

The **control panel** is an Digital Control Module suitable for a wide variety of single, diesel or gas, gen-set applications.

Monitoring an extensive number of engine parameters, the module will display warnings, shutdown and engine status information on the back-lit LCD screen and illuminated LEDs.

The control module has indicators for failure information:

Over speed/Low speed,

Emergency stop

Low oil pressure;

High water temperature

Failure to start

Battery charger failure

Automatic shutdown occurs under:

Low engine oil pressure;

High engine water temperature;

Over speed/Low speed;

Failure to start after three attempts.

Electrical system

- Maintenance-free and anti-explosion battery
- Standard breaker
- > ABB breaker (optional)
- > ATS (optional)
- Battery charger (optional)
- GMS monitoring (optional)

Packing

- Wrapping film packaging
- Tray packaging
- plywood box packaging

Jiangsu Jianghao Generator Co.,Ltd

Address: No.1 Xixu Road, Medical High-tech Zone, Taizhou city, Jiangsu, China

Contact Person: Anthony Feng

Email: jhfsale@jhgenerator.com

WhatsAPP: +86 18652649673

