



Genset	
Model	JHP5-7GF
Voltage	230/400V
Frequency&Speed	50HZ;1500RPM
Prime Power	7kW/9kVA
Standby Power	9kW/11kVA

► Engine: Perkins 403D-11G

➤ Alternator: Stamford/Leroy Somer /Hengsheng

➤ Controller: DeepSea/SmartGen /DEIF/ComAp

Basic technical data

Number of cylinders
Cylinder arrangement
Cycle
Induction system
Compression ratio
Bore
Stroke
Cubic capacity
Direction of rotation when viewed from flywheel Anticlockwise
Firing order
Weight of ElectropaK
Dry (estimated)
*** **********************************
Overall dimensions of Electropa K
Height
Length
Width (including mounting brackets)
Moments of inertia (mk²)
Engine rotational components
Flywheel
Centre of gravity
Forward from rear of block 98 mm
Above centre line of block
Offset to RHS of centre line
Ratings
Steady state speed stability at constant load

Performance

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 lor alfitude are available, please contact Perkins Applications Department.

Test conditions

Air temperature	25°C
Barometric pressure	100 kPa
Relative humidity	31.5%
Air inlet restriction at maximum power (nominal)	3kPa
Exhaust back pressure at maximum power (nominal)	. 10.2 kPa
Fuel temperature (inlet pump)	40°C
All ratings certified to within	±5%

Sound level

Average sound pressure level for bare engine
(without inlet and exhaust) at 1 metre

Note: If the engine is to operate in ambient conditions other than those of the test conditions, suitable adjustments must be made for these changes.

For full details, contact Perkins Technical Service Department. Emissions Statement: Certified against the requirements of EU2007 (EU 97/68/EC Stage II) legislation for nonroad mobile machinery, powered by constant speed engines.

General installation, 403D-11G ElectropaK @ 1500 rpm

Designation	Units	Type of operation and application				
		Prime power (50 Hz)	Standby power (50 Hz)			
Gross engine power	kWb	8.6	9.5			
ElectropaK nett engine power	kWm	8.4	9.3			
Gross BMEP	kPa	610 672				
Engine coolant flow (Water pump ratio 1.285; 1)	litres/min	27.3				
Combustion air flow	m³/min	0.7				
Exhaust gas flow (maximum)	m²/min	1.66 1.8				
Exhaust gas temperature outlet (maximum)	*C	368 420				
Overall thermal efficiency (nett)	%	32	31			
Tirrient Compensar and planting autout (0.9 of 2000)	kWe	7.2	8.0			
Typical Generator sets electrical output (0.8 pf 25°C)	kVA	9.0	10			
Assumed alternator efficiency	%		86			

Energy balance

Desig nation	Units	Type of operation and application				
	Units	Prime power (50 Hz)	Standby power (50 Hz)			
Energy in fuel (heat of combustion)	kV/t	25.9	29.5			
Energy in power output (gross)	kWb	8.6 9.5				
Energy to cooling fan	k/Vm	0.2				
Energy in power output (nett)	kWm	8.4 9.3				
Energy to coolant and lubricating oil	KWI	8.3	9.5			
Energy to exhaust	KWI	7.3	8.0			
Energy to radiation	kWt	1.7	2.5			



Cooling system

Ra	ď	ıa	to	r
Ra	di	at r	ar.	far

Radiator face area	
Material and number of rows	Aluminium, 2 rows
Material and matrix density	Aluminium, 14.5 fins/inch
Width of matrix	
Height of matrix	
Pressure cap setting	90 kPa
Estimated cooling air flow reserve	0.125 kPa

Diameter	 	 	 	 		320 mm
Drive ratio	 	 	 	 		1.25:1
Number of blades	 	 	 	 		7
Material	 	 	 	 		Plastic
Туре	 	 	 	 	-	Pusher

Total coolant capacity

ElectropaK (with radiator)	.5.2 litres
ElectropaK (without radiator)	. 1.9 litres
Maximum top tank temperature	112°C
Maximum static pressure head on pump	.30.4 kPa
Thermostat operation range	75-87°C

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

For complete details of recommended coolant specifications, refer to the Operation and Maintenance manual for this engine model

Duct allowance

Maximum additional restriction to cooling airflow and resultant minimum sirflow					
Ambient clearance 50% Głycol	Duct allowance (Pa)	m³/sec			
53*C	0	0.67			
46°C	125	0.44			

Electrical system

Alternator	15 amps,	12 volts
Starter motor		
Number of teeth on flywheel		96
Number of teeth on starter pinion		9

Exhaust system

Engine mounting	
Vertical	. 40 mm
Horizontal	. 34 mm
Exhaust outlet size	
maximum back pressure	10.2 KPa

Maximum static bending moment at rear face of block.......... 500 Nm

Fuel system

Type of injection	 		 	 	 	 	Ir	ndirect injection
Fuel injection pump	 		 	 	 	 		. Cassette type
Fuel injector	 		 	 	 	 		Pintle nozzle
Nozzle opening pressure	 			 				14.7 MPa
Maximum partide size	 	 	 	 	 	 		25 microns

Fuel lift pump

Fuel lift pump type Mechanical (camshaft driven)
Flow/hour
Pressure
Maximum suction head
Maximum static pressure head
Maximum fuel temperature at lift pump inlet
Maximum fuel filter service interval
Governor type Mechanical
Speed control conforms to

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.

Fuel consumption

Fuel consumption for 403D-11G @ 1500 rpm									
Power rating	110%	100%	75%	50%					
g/kWh	261	252	258	286					
Litres/hour	3.1	2.7	2.1	1.5					

Cold start recommendations

Minimum cranking speed @ 1500 rpm

Minimum	Crede et annine	Battery specifications									
starting temperature	Grade of engine lubricating oil	BS3911 Cold start amps	SAEJ537 Cold cranking amps	Number of batteries required	Commercial reference number						
0°C	20W	340	540	1	069						
-15°C	10W	340	540	1	069						
-20°C	5W	420	590		072						

Alternator

Pole No. 4-Pole

Exciter Type Single bearing, Brushless,

Self-excited

Power factor 0.8 Voltage adjust range **≤**5% Insulation Grade Η

Protection Grade IP23/22

Phase / wire 3 phase 4 wires

- 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.



Control Panel









The control module gives digital readouts of:

Generator voltage;

Output frequency;

Engine speed;

Battery voltage;

Engine hours run.



Dimension:1100*650*1050mm Weight:300kg



Dimension:2200*1000*1550mm Weight:850kg Fuel Tank Capacity:180L

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

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