



Genset	
Model	JHP-14GF
Voltage	277/480V
Frequency&Speed	60HZ;1800RPM
Prime Power	14kW/18kVA
Standby Power	16kW/20kVA

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Basic technical data

Centre of gravity

Moments of inertia

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► Engine: Perkins 403A-15G2

► Alternator: Stamford/Leroy Somer /Hengsheng

Exhaust back pressure at maximum power (nominal) 10.2 kPa

All ratings certified to within. ± 5%

>Controller:DeepSea/SmartGen

Ratings

Number of cylinders	Steady state speed stability at constant load
Cylinder arrangement	Performance
Cycle	Average sound pressure level for bare engine (without inlet and exhaust) at 1 metre
Compression ratio .22.5:1 Bore .84 mm Stroke .90 mm	Note: All data based on operation to ISO 3046/1:2002 standard reference conditions.
Displacement. 1.496 litres Direction of rotation when viewed from flywheel. Anticlockwise	Note: For engines operating in ambient conditions other than the standard reference conditions stated below, a suitable derate must be applied
Firing order	Note: Derate tables for increased ambient temperature and/or altitude are available, please contact Perkins Applications Department.
Wet (estimated)	Test conditions
Overall dimensions of ElectropaK	Air temperature
	Decemental accessors 400 l.D.

/DEIF/ComAp

Cyclic irregularity for engine standby power

General installation, 403A-15G2 ElectropaK @ 1800 rpm

Designation	Units -	Type of operation and application	
		Prime power (60Hz)	Standby power (60Hz)
Gross engine power	kWb	16.33	17.96
Gross BMEP	kPa	728	800
Me an piston speed	m/s	5.4	
ElectropaK nett engine power	kW	16.1	17.77
Engine coolant flow against 35 kPa restriction	litres/min	55.2	
Combustion air flow	m³/min	1.2 TBA	
Exhaust gas flow (max.) at atmospheric pressure	m³/min	2.6	TBA
Exhaust gas temperature (max.)	°C	480	590
Overall thermal efficiency	%	33.04	33.10
	kWe	14.01	15.62
Typical Generator sets electrical output (0.8pf 25°C)	KVA	17.51	19.52
Assumed alternator efficiency	%		87



Cooling system

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.

Total coolant capacity

ElectropaK (with radiator)	.6.0 litres
ElectropaK (without radiator)	. 2.6 litres
Maximum top tank temperature	112°C
Maximum static pressure head on pump	.30.4 kPa
Temperature rise across engine	5.1°C
Maximum permissible external system resistance	.TBA kPa
Thermostat operation range	82 - 95°C

Radiator

Radiator face area	0.167 m²
Material and number of rows	Aluminium, 2 rows
Material and fins per inch	Aluminium, 4.5 fins/inch
Width of matrix	
Height of matrix	
Pressure cap setting	
Estimated cooling air flow reserve	0.125 kPa

Fan

Туре	Pusher
Diameter	320 mm
Number of blades	
Material	Plastic
Drive ratio Airflow at rated speed	

Duct allowance - Maximum additional restriction to cooling airflow and resultant minimum airflow		
Ambient clearance 50% Glycol	Duct allowance (Pa)	m³/sec
53°C	65	48.6
46°C	125	48.6

Fuel system

Type of injection	.Indirect injection
Fuel injection pump	
Fuel injector	Pintle nozzle
Nozzle opening pressure	
Maximum particle size	25 microns
Fuel lift pump type Mechanical	(camshaft driven)
Flow/hour	63 litres/hr
Pressure	
Maximum suction head	
Maximum static pressure head	3.0v m
Maximum fuel temperature at lift pump inlet	
Maximum fuel filter service interval	1000 hrs
Governor type	Mechanical
Speed control conforms to	G2

Fuel specification

USAF	ed Off Highway EPA2D 89.330-96
Europe	Off Highway
Note:	For further information on fuel specifications and restrictions, refer to the OMM fuels section for this engine model.

Fuel consumption

	18 kW/1800 rpm		
Power rating %	g/kWh	litres/hr	
25	375	1.55	
50	272	2.25	
75	250	3.10	
100	261	4.32	
110	282	5.12	

Cold start recommendations

Minimum cranking speed @ 1800 rpm

Minimum starting temperature	Grade of engine - lubricating oil	Battery specifications			
		BS3911 Cold start amps	SAEJ537 Cold cranking amps	Number of batteries required	Commercial reference number
0°C	20W	420	590	1	72
-15°C	10W	420	590	1	72
-20°C	5W	540	740	1	647

Alternator

Pole No. 4-Pole

Exciter Type Single bearing, Brushless,

Self-excited

Power factor 0.8Voltage adjust range $\leq 5\%$ Insulation Grade H
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:1250*700*1100mm Weight:350kg



Dimension:2200*1000*1550mm Weight:900kg 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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