



JHP-150GF

60HZ;1800RPM

158kW/197kVA

175kW/219kVA

277/480V

► Engine: Perkins 1106A-70TAG3

➤ Alternator: Stamford/Leroy Somer / Hengsheng

▶Controller:DeepSea/SmartGen

/DEIF/ComAp

Basic technical data

Frequency&Speed

Prime Power

Standby Power

Genset

Model

Voltage

Number of cylinders	6
Cyde	stroke
Induction system	
Compression ratio	
Bore	
Cubic capacity	
Firing order	743 kg
Overall dimensions (ElectropaK)	
Height	92 mm
Length (air cleaner fitted)	
Moments of inertia	

Engine rotational components 0.27 kgm² (SAE2)

Centre of gravity, ElectropaK

Forward from rear of block (wet)
Above crankshaft centre line (wet)
Offset to RHS of crankshaft centre line (wet)
Performance
Speed variation at constant load ±0.75%
Cyclic irregularity at standby power
All ratings within ± 5%
[H. H. H

Note: All data based on operation to ISO 3046-1:2002 standard reference conditions.

Sound level

Average sound pressure level for prime power @ 1 m......TBA dB(A)

Test conditions

Air temperature
Barometric pressure
Relative humidity
Air inlet restriction at maximum power 3 kPa (maximum)
Exhaust back pressure at maximum power 6 kPa (maximum)
Fuel temperature

ote: 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.

General installation

General Installation	Units	Prime	Standby
Gross engine power	kW	180.5	199.7
Brake mean effective pressure	kPa	1716.6	1899.2
Mean piston's peed	m/s	8.1	
ElectropaK nett engine power	kW	172.5	191.7
Engine coolant flow (against 35 kPa restriction)	litres/min		170
Combustion air flow (at STP)	m7min	15.45	16.37
Exhaust gas flow (maximum)	milmin	35.42	38.35
Exhaust gas temperature (maximum) in manifold (after turbocharger)	*C	485	
Nett engine thermal efficiency	%	37.6	37.6
Typical genset electrical output (0.8pf25°C)	kWe	157.5	175
Typical general electrical output (p. op. 2.5 G)	kVA	196.9	218.75
Regenerative power (estimated)	kW	9	
Assumed alternator efficiency	%	91.3 91.3	
Energy balance			
Heat in fuel	kW	458.5	510.2
Power to cooling fan	kW	8	
Power to coolant and lubricating oil	kW	81.5	88.3
Power to exhaust	kW	142.1	159.9
Energy to charge coolers	kW	37.2	42.8
Power to radiation	kW	17.2	19.5

Prime power: Unlimited hours usage, with an average load factor of 80% over each 24 hour period. A 10% overload is available for 1 hour in every 12 hours operation.

Standby power: Limited to 500 hours annual usage, with an average load factor of 80% of the published standby power rating over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on standby power.



Cooling system

_		200.00	pac	
	വ	ınn	nac	×
-	~~		D CIC	

Overall weight (wet)	
Overall face are a	
Width	
Height	

Radiator	
Face area	
Number of rows and materials	4 rows, Aluminium
Matrix density and material	.11.3 fins per inch, Aluminium
Width of matrix	
Height of matrix	690 mm
Pressure cap setting (minimum)	110 kPa

Charge cooler

Face area	151,800 mm²
Number of rows and materials	2 rows, Aluminium
Matrix density and material	.10 fins per inch, Aluminium
Width of matrix	220 mm
Height of matrix	

Fan

Diameter	635 mm
Drive ratio	1.25:1
Number of blades	7
Material	Nylon
Type	
Air flow @ 1800 rpm	282 m³/min
Power @ 1800 rpm	8 kW

Caalant

Coolant
Total system capacity
System drawdown capacity
Engine capacity
Maximum top tank temperature
Temperature rise across engine
(Maximum rating dependent)
Maximum permissible external system resistance
Thermostat operation range 82°C to 93°C
Shutdown switch setting
Coolant pump method of drive
Recommended coolant immersion heater rating (minimum)0.75 kW
Recommended coolant
BS6580 - 1992, ASTM D3306 and ELC coolants to 1E1966

Duct allowance

Maximum additional restriction (duct allowance to cooling airflow and resultant minimum air flow) - Standby power

Description	rpm	kPa	m³/min
Duct allowance with inh	ibited coolant at	53°C	
Minimum air flow	1800	0.12	258
Duct allowance with inh	ibited coolant at	46°C	
Minimum air flow	1800	0.200	228

Electrical system

Alternator	
Alternator voltage	
Alternator output	
Starter	
Starter motor voltage	
Starter motor power	
Number of teeth on the flywheel	
Pull-in and hold-in current of starter motor solenoid	
@ 25°C maximum (1)	12 volts 320 amps
Hold-in current of starter motor solenoid	- Wi
@ 25°C maximum (1)	12 volts 25 amps
Engine stop method	101 101 101 101 101
1 All leads to rated at 10 amps minimum	

Cold start recommendations

	5 to -10°C	-10 to -20°C	-20 to -25°C			
Oil	15W40	101/40	50/40			
Starter		38 MT				
Battery	2 x 950 CCA					
Cranking current	850 A					
Aids	None	Glowplugs				
Minimum mean cranking speed	130 rpm	100 rpm	100 rpm			

Note: Battery capacity is defined by the 20 hour rate.

Note: If a change to a low viscosity oil is made, the cranking torque necessary at low ambient temperatures is much reduced. The starting equipment has been selected to take advantage of this. It is important to change to the appropriate multigrade oil in anticipation of operating in low ambient temperatures.

Exhaust system

Maximum back pressure - 1800 rpm		 	 		 	 	6	5.01	kPa
Exhaust outlet, internal diameter	3			3			33	72	mm

Fuel consumption

Load	Type of operation and application					
	g/kWh	litres/hr				
110% Prime power	212.5	50.5				
Prime power	214.2	46.4				
75% Prime power	218.4	35.3				
50% Prime power	210.9	22.7				
25% Prime power	229.5	12.4				

Alternator

ole

Exciter Type Single bearing, Brushless,

Η

Self-excited

Power factor 0.8 Voltage adjust range **≤**5%

Insulation Grade

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.
- \diamond 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:2300*950*1300mm Weight:1300kg



Dimension:3300*1300*1800mm Weight:2350kg Fuel Tank Capacity:360L

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

