



Genset	
Model	JHP-132GF
Voltage	277/480V
Frequency&Speed	60HZ;1800RPM
Prime Power	135kW/169kVA
Standby Power	150kW/188kVA

Basic technical data

► Engine: Perkins 1106A-70TAG2

➤ Alternator: Stamford/Leroy Somer /Hengsheng

► Controller: DeepSea/SmartGen

/DEIF/ComAp Centre of gravity, ElectropaK

Number of cylinders
Compression ratio 18.2 : Bore 105 m Stroke 135 m Cubic capacity 7.01 litro Direction of rotation Anticlockwise when viewed from flywhe Firing order 1, 5, 3, 6, 2, Estimated total weight (dry) 7431 Estimated total weight (wet) 7777

Forward from rear of	block (wet)
Above crankshaft ce	ntre line (wet)
Offset to RHS of crar	nkshaft centre line (wet)
Performance	
Speed variation at co	onstant load ± 0.75%
Cyclic irregularity at	standby power
All ratings within	±5%
Note: All data bas reference co	ed on operation to ISO 3046-1:2002 standard onditions.
Sound level	
Average sound press	sure level for prime power @ 1 m TBA dB(A)
Test conditions	

Tool containent
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

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	155.4	171.8
Gross BMEP	kPa	1477.9	1633.9
Mean piston speed	metres/s		3.1
ElectropaK nett engine power	kW	147.4	163.8
Engine coolant flow (against 35 kPa restriction)	litres/min	1	70
Combustion air flow (at STP)	m³/min	14.41	14.97
Exhaust gas flow (maximum)	m³/min	30.53	32.29
Exhaust gas lemperature (maximum) in manifold (after turbocharger)	10	4	07
Nett engine thermal efficiency	%	38.7	39.3
Turinel accept ale ational and and (O Def OFFIC)	kWe	135	150
Typical genset electrical output (0.8pf 25°C)	kVA	168.8	187.5
Regenerative power (estimated)	kW		7.7
Assumed alternator efficiency	%	9	1.6

Rating definitions

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

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

Energy balance

Designation	Units	Prime	Standby
Heat in fuel	kW	380.5	416.9
Power to cooling fan	kW		8
Power to coolant and lubricating oil	kW	73.5	80.1
Power to exhaust	kW	110.7	120.6
Energy to charge coolers	kW	29.6	32.1
Power to radiation	kW	11.3	12.3



Cooling system

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Overall weight (wet)	45 kg
Overall face area	9,200 mm ²
Width	684 mm
Height	690 mm

Radiator

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

Charge cooler

Face area	
Number of rows and materials	2 rows, Aluminium
Matrix density and material	s per inch, Aluminium
Width of matrix	
Height of matrix	

Fan

Diameter		 	.635 mm
Drive ratio		 	1.25:1
Number of blades	******	 	7
Material			
Туре		 	Pusher
Air flow @ 1800 rpm			
Power @ 1800 rpm		 	8 kW

Coolant

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 Gear
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

Alternator

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

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)
Hold-in current of starter motor solenoid
@ 25°C maximum(1)
Engine stop method
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	10VV40	5W40
Starter	AZF		
Battery	2 x 1200 CCA		
Cranking current	960		
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	6.0 kPa
Exhaust outlet, internal diameter	72 mm

Fuel consumption

Load	Type of operation and application		
	g/kWh	litres/hr	
110% Prime power	203.1	41.7	
Prime power	205.1	38.2	
75% Prime power	208.4	29.1	
50% Prime power	202.1	19.1	
25% Prime power	232.9	11	

- 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:2300*950*1300mm Weight:1450kg



Dimension:3300*1300*1800mm Weight:2500kg 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

