



	Genset					
	Model	JHP-350GF				
	Voltage	277/480V				
	Frequency&Speed	60HZ;1800RPM				
	Prime Power	350kW/438kVA				
	Standby Power	390kW/488kVA				

► Engine: Perkins 2206D-E13TAG3

► Alternator: Stamford/Leroy Somer /Hengsheng

► Controller: DeepSea/SmartGen /DEIF/ComAp

Basic technical data

Number of cylinders
Cycle
Induction system Turbocharged, air-to-air charge cooling
Combustion system Direct injection diesel
Compression ratio
Bore
Stroke
Cubic capacity
Direction of rotation Anti clockwise when viewed from flywheel
Firing order (number 1 cylinder furthest from flywheel 1, 5, 3, 6, 2, 4
Estimated total weight (dry)
Estimated total weight (wet)
Overall dimensions, ElectropaK
Height
Length (air cleaner fitted)
Width
Moments of inertia
Engine
Flywheel
Centre of gravity, ElectropaK
Forward from rear of block (wet)
Above crankshaft centre line (wet)

Cucl	lin	irrequ	la ribe

	ov/min
Perfo	rmance
	state speed capability at constant load - G2+0.25% ags certified to within±3%
Note:	All data based on operation to ISO 3046-1/1, BS5514 and DIN 627 standard reference conditions.
Note:	All data based on 42584 MJ/kg calorific value for diesel conforming to specification BS2869 Class A2.

Sound level

Sound pressure level (exhaust piped away, cooling pack and air cleaner fitted)
1500 rev/min
1800 rev/min
Test conditions

Air temperature	25°C
Barometric pressure	100 kPa
Relative humidity	30%
Air inlet restriction at maximum power (nominal)	.2.5 kPa
Exhaust back pressure at maximum power (nominal)	.6.8 kPa
Fuel temperature (inlet pump)	40°C

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 capability: Certified against the requirements of India CPCB II and EU Stage IIIA legislation for genset application, powered by constant speed engines.

General installation

LEARNING.		50 Hz @ 1500 rev/min Prime power	
Designation	Units		
Gross engine power	K/Vb	367.0	
Brake mean effective pressure (BMEP)	kPa	2347.0	
Combustion air flow (at rated speed)	m²/min	25.6	
Exhaust gas flow (maximum)	m²/min	68.3	
Exhaust gas mass flow	kg/min	31.5	
Exhaust gas temperature (turbocharger outlet)	*C	540.0	
Boost pressure ratio		3.5	
Overall thermal efficiency (nett)	*	39.1	
T-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	KWe	320.0	
Typical generator set electrical output (0.8pf 25°C)	KVA	400.0	
Assumed alternator efficiency	%	92.0	

Rating definitions

Variable load. Unlimited hours usage with an average load factor of 70% of the published prime power rating over each 24 hour period. A 10% overload is available for 1 hour in every 12 hours of operation.

Standby power

Variable load. Limited to 500 hours annual usage up to 300 hours of which may be continuous running. No overload is permitted.



Cooling system

Radiator

Face area	1.238 mm²
Number of rows and materials	
Matrix density and material	
Width of matrix	
Height of matrix	
Weight of radiator (dry)	
Pressure cap setting (minimum)	

Charge cooler

Face area	
Number of rows and materials	1 row, Aluminium
Matrix density and material	
Width of matrix	
Height of matrix	1100 mm

Coolant pump

Speed @ 1500 rev/min	 	 		 	. 2056 rev/min
Drive method	 	 	COUNT	 	Gear

Fan

Diameter	927 mm
Drive ratio	.0.92:1
Number of blades	9
Material	mposite
Type	Pusher
Cooling fan air flow @ 1500 rev/min	m³/min

Coolant

Total system capacity	51.4 litres
Maximum top tank temperature	104 °C
Temperature rise across engine	10°C
Maximum pressure in engine cooling circuit	70 kPa
Maximum permissible external system resistance	30 kPa
Maximum static pressure head on pump	30 kPa
Coolant flow against 30 kPa restriction	
1500 rev/min	5.3 litroe le oc

Fuel consumption

Load	2206D-E13TAG3 - 1500 rev/min		
	g/kWh	litres/hr	
100% Prime power	205.8	90.0	
75% Prime power	218.7	72.0	
50% Prime power	228.7	50.0	

Alternator

Pole No.

Exciter Type	Single bearing, Brushless,
	Self-excited
Power factor	0.8

4-Pole

Voltage adjust range $\leq 5\%$ Insulation Grade H

Protection Grade IP23/22

Phase / wire 3 phase 4 wires

Duct allowance

Maximum additional restriction (duct allowance) to cooling airflow and resultant minimum airflow				
Engine speed rev/min	Ambient clearance in hi bited coolant *C	Duct allowance Pa	m3/min	
1500	52	200	563	

Electrical system

Type	24 volts negative earth
Alternator	
Alternator voltage	24 volts
Alternator output	40 amps
Starter motor type	
Starter motor voltage	24 volts
Starter motor power	7.8 kW
Number of teeth on the flywheel	
Number of teeth on starter pinion	
Minimum cranking speed	106 rev/min
Starter solenoid maximum	
Pull-in current @ 25°C	
Hold-in current @ 25°C	25 amps

Cold start recommendations

	5 to -10°C	-11 to -25°C
SAE grade Oil	15W40	5W40
Starter	42MT	
Battery	24 volts	
Maximum breakaway current	1311 amps	1585 amps
Cranking current	588 amps	828 amps
Starting Aids (ECM controlled)	None	1,5 (110V/240V)
Minimum mean cranking speed	106 rev/min	

Notes

- · battery capacity is defined by the 20 hour rate
- the oil specification should be for the minimum ambient temperature as the oil will not be warmed by the immersion heater.
- breakaway current is dependent on the battery capacity available.
 Cables should capable of handling transient current twice that of cranking current.

Exhaust system

Maximum back	pressure - 1500rev/min	a
Exhaust outlet.	internal diameter	m

- 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:3650*1100*2000mm Weight:3300kg



Dimension:4700*2100*2400mm Weight:6200kg Fuel Tank Capacity:1000L

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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