





Genset	
Model	JHP5-10GF
Voltage	230/400V
Frequency&Speed	50HZ;1500RPM
Prime Power	10kW/13kVA
Standby Power	12kW/15kVA

Standby I ower	12K W/13K VA
Basic technical	data
Number of cylinders	
	Vertical in-line
	four stroke
	Naturally aspirated
Control of the Contro	
Bore	
Stroke	
Cubic capacity	1496 litres
Direction of rotation	anti-clockwise when viewed from flywheel
	t (dry)
Estimated to all weigh	((a)))
Overall dimensi	ons
-height	
1147	
	820 mm
-width	476 mm
Moments of iner	tia (mk²)
-engine rotational cor	nponents 0,45 kg m²
-flywheel	
0	
Centre of gravit	/

-forward from rear of block...... tba mm

-above centre line of block tba mm

► Engine: Perkins 403D-15G

► Alternator: Stamford/Leroy Somer /Hengsheng

▶Controller:DeepSea/SmartGen /DEIF/ComAp

Performance

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

Steady state speed stability at constant load
G2±0,75%
Cyclic irregularity
-at 110% stand-by power

Test conditions

air temperature	25 °C
-barometric pressure	100 kPa
-relative humidity	31.5%
-air inlet restriction at maximum power (nominal)	3 kPa
exhaust back pressure at maximum power (nominal)	10,2 kPa
-fuel temperature (inlet pump)	40 °C

Sound level

Average sound pressure level for bare engine (without i	nlet and
exhaust) at 1 metre	76,7 dB(A)
-all ratings certified to within	±5%
If the engine is to operate in ambient conditions other the	an those of
the test conditions, suitable adjustments must be made	for these
changes. For full details, contact Perkins Technical Sen	vice

Department. Emissions Statement: Certified against the requirements of EU2007 (EU 97/68/EC Stage II) legislation for non-road mobile machinery, powered by constant speed engines.

General installation

Control of the Contro		Type of operation and application					
Designation	Units	Prime	Stand-by				
		50Hz	50Hz				
Gross engine power	kWb	12,2	13,5				
Brake mean effective pressure	kPa	650	722				
Mean Piston speed	m/s	4,5					
ElectropaK net engine power	kW	12,0	13,3				
Engine coolant flow (coolant pump ratio 1·15:1)	Vmin	3	7,7				
Combustion air flow	m³/min	1,1					
Exhaust gas flow (max)	m³/min	2,7	2,9				
Exhaust gas temperature (max)	*C	445	490				
Overall thermal efficiency	%	33,0	33,0				
Typical genset electrical output (0,8 pf 25*C)	kWe	10,4	11,6				
	kVA	13,1	14,5				
Assumed alternator efficiency	%	87					
Energy balance		-					
Energy in fuel (heat of combustion)	kW	36,3	40,2				
Energy in power output (gross)	kW	12,2	13,5				
Energy to cooling fan	kWt	(),2				
Energy in power output (nett)	kWm	12,0	13,3				
Energy to coolant and lubricating oil	kW	11,6	12,9				
Energy to exhaust	kW	9,3	10,3				
Energy to radiation	kW	3,2	3,5				



Cooling system

Radiator

-face area	0,167 m²
-rows and materials	.2 rows, Aluminium
-matrix density and material 4,5 fins	per inch, Aluminium
-width of matrix	
-height of matrix	500,0 mm
-pressure cap setting	90 kPa
Estimated cooling air flow reserve	0,125 kPa

Fan

| diameter. | |
 | 3 | 320 mm |
|-------------------------------|--------|------|------|------|------|------|------|------|---|---------|
| -drive ratio | |
 | | .1,15:1 |
| -number of | blades |
 | | 7 |
| -material | |
 | | Plastic |
| -type | |
 | | Pusher |

Coolant

Total system capacity
-with radiator 6,0 litres
-without radiator
Maximum top tank temperature
Max static pressure head on pump
Temperature rise across engine 5,1 °C
Max permissible external system resistance ba kPa
Thermostat operation range
Recommended coolant:
D

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 re airflow and	estriction (duct allowar resultant minimum air	
Ambient clearance 50% Glycol	Duct allowance Pa	m³/sec
53°C	0	0,61
46°C	125	0,42

Electrical System

-alternator		 	65	amps,	12 V							
-starter mo	tor.	 	 	 	 	 	 	 Bo	sch	2 kW.	12 V	

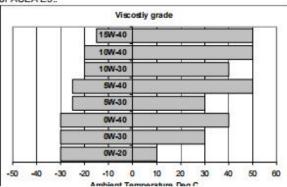
Cold start recommendations

Minimum starting temperature	Grade of	Battery specifications											
°c	engine lubricating oil	BS3911 Cold start amps	SAEJ537 Cold cranking amps	Number of batteries needed	Commercial ref number								
0	20W	420	590	1	072								
-15	10W	420	590	1	072								
20	EVAL	540	740	4	847								

Note: Additional information for battery and cable limits can be found in section 6 (Electrics) of 400D Engine Sales Manual.

Recommended SAE viscosity

A single or multigrade oil must be used which conforms API-CH-4 or ACEA E5..



Exhaust system

Maximum back pressure	10,2 kPa	ì
Exhaust outlet size	42 mn	1

Fuel system

Type of injection	. Indirect injection
Fuel injection pump	Cassette type
Fuel injector	Pintle nazzle
Nozzle opening pressure	14,7 MPa
Max particle size	25 microns

Fuel lift pump

-typem	echanical (camshaft driven)
-flow/hour	
-pressure	10 kPa
Maximum suction head	
Maximum static pressure head	3,0 m
Governor type	Mechanical

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

100	P	ower rating	%	
g/kWh (litres/hr)				
110	100	75	50	25
251 (4.08)	248 (3.67)	252 (2.79)	277 (2.04)	360 (1.32)

Alternator

Pole No	4-Pole

Exciter Type Single bearing, Brushless,

Self-excited

Power factor 0.8

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

Protection Grade IP23/22

Trotection Grade II 23/22

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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