



Genset	
Model	JHP-20GF
Voltage	277/480V
Frequency&Speed	60HZ;1800RPM
Prime Power	19kW/24kVA
Standby Power	21kW/26kVA

► Engine: Perkins 404D-22G

➤ Alternator: Stamford/Leroy Somer /Hengsheng

➤ Controller: DeepSea/SmartGen/DEIF/ComAp

Basic technical data

Number of cylinders	4
Cylinder arrangement	e
Cycle	e
Induction system	d
Compression ratio	1
Bore	n
Stroke	n
Cubic capacity	s
Direction of rotation when viewed from flywheel Anticlockwise	e
Firing order	2
Weight of ElectropaK	
Dry	g
Overall dimensions of ElectropaK	
Height	n
Length (from rear of air cleaner to front face of radiator)948 mn	
Width (including mounting brackets)	
Moments of inertia (mk²)	
Engine rotational component	2
Flywheel	
Centre of gravity (engine only)	
Forward from rear of block	n
Above centre line of block	
Offset to RHS of centre line	

Performance

I GIII	omance
Note:	All data based on operation to ISO 3046-1:2002 standard reference conditions.
Speed	variation at constant load ± 0.5%
Cyclic	irregularity
At 1109	6 standby power TBA
Test c	onditions
Airtem	perature
Barome	etric pressure
	e humidity
Airinlet	restriction at maximum power (nominal)
Exhaus	t back pressure at maximum power (nominal) 10.2 kPa
Fuel ter	mperature (inlet pump)
Allratin	gs certified to within ±5% CRH
Sour	nd level
	e sound pressure level for bare engine
(withou	t inlet and exhaust) at 1 metre

Notes:

- 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 Statement: Certified against the requirements of EU2007 (EU97/68/EC Stage II) and EPA Interim Tier 4 (EPA 40 CFR Part 1039 Interim Tier 4) legislation for nonroad mobile machinery, powered by constant speed engines.

General installation, 404D-22G ElectropaK @ 1800 rpm

		Ty pe of operation	n and application				
Designation	Units	60 Hz					
		Prime	Standby				
Gross engine power	kWb	22.0	24.3				
ElectropaK nett engine power	kWm	21.6	23.9				
Brake mean effedive pressure	kPa	657.9	731.0				
Engine coolant flow (coolant pump ratio 1.33:1)	1/min		8.7				
Combustion air flow	m ⁹ /min		.74				
Exhaust gas flow (maximum)	m³/min	4.34	4.76				
Exhaust gas temperature outlet (maximum)	°C	440	510				
Overall thermal efficiency (nett)	%		35				
Typical genset electrical output (0.8 pf 25°C)	kWe	19.2	21.3				
Typical generi electrical output (v.o.pr.25°C)	KVA	24.0	26.6				
Assumed alternator efficiency	%	. 7	89				



Cooling system

Radiator

Radiator face area	
Number of rows and materials	2 rows, Aluminium,
Matrix density and material	14.5 fins/inch, Aluminium
Width of matrix	
Height of matrix	
Pressure cap setting	90 kPa
Estimated cooling air flow reserve	0.125 kPa

Fan

Diameter	 	****	 	 		 	 	 	 	 	 320 mm
Drive ratio	 		 			 	 	 	 	 	 .1.33:1
Number of blades	 		 	 		 	 	 	 	 	 6
Material	 		 	 		 	 	 	 	 	 Plastic
Туре				 	-				 	 	 Puller

Coolant (total system capacity)

With radiator	.0 litres
Without radiator 3	.6 litres
Maximum top tank temperature	.112°C
Temperature rise across engine	7.5°C
Maximum permissible external system resistance	15 kPa
Thermostat operation range	-95°C

Note: 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.

Maximum static bending moment

At rear face of bloc 1400 Nm

Duct allowance

	nal restriction (duct allowa and resultant minimum air	
Ambient clearance 50% Glycol	Duct allowance Pa	m³/sec
53°C	0	0.78
46°C	80	0.73

Notes:

- thermal capability needs to be considered as a function of canopy design
- · all data assumes 3°C air temperature rise over ambient into radiator

Electrical system

Alternator	65	amps,	12 volts
Startermotor		2 kW,	12 volts

Exhaust system

Maximum back pressure for total system	.10.2 kPa
Inside diameter of outlet flange	42 mm

Induction system

Maximum air intake restriction

Clean filter	 				3	3.0	kPa	ı								
Dirty filter	 				6	3.4	kPa	1								
Airfilter type	 					 	 	 		Dr	VE	le	me	nt t	ype	9

Cold start recommendations

Minimum			Battery spe	cifications	_
starting temperature	Grade of engine lubricating oil	BS 3911 Cold start amps	SAEJ537 Cold cranking amps	Number of batteries required	Commercial reference number
0°C	20 W	540	740	1	647
-15°C	10 W	540	740	1	647
-20°C	5W	600	780	1	655

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:1350*710*1100mm Weight:500kg



Dimension:2400*1000*1550mm Weight:1100kg Fuel Tank Capacity:240L

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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