



Genset	
Model	JHP5-360GF
Voltage	230/400V
Frequency&Speed	50HZ;1500RPM
Prime Power	364kW/455kVA
Standby Power	400kW/500kVA

► Engine: Perkins 2506C-E15TAG1

➤ Alternator: Stamford/Leroy Somer /Hengsheng

▶Controller:DeepSea/SmartGen

/DEIF/ComAp

Number of cylinders
Cylinder arrangement
Cycle 4 strok
Induction system turbocharged, air to air charge coolin
Combustion system
Compression ratio
Bore
Stroke 171 m

 Bore
 137 mm

 Stroke
 171 mm

 Cubic capacity
 15 litres

 Direction of rotation
 anti-clockwise viewed on flywheel

 Firing order (cylinder 1 furthest from flywheel)
 1, 5, 3, 6, 2, 4

Total weight of ElectropaK

-dry (engine only)	1633 kg
-wet	1714 kg
PACTURE OF THE STATE OF THE STA	

Overall dimensions

Basic technical data

| -height | |
 |
1718 | mm |
|----------|--|------|------|------|------|------|------|------|------|------|------|----------|----|
| -length | |
 |
2657 | mm |
| -width . | |
 |
1120 | mm |

Moments of inertia (mk²)

moments of mertia (mk)	
Engine	
-1500 rev/min	2-3291 kgm2
-1800 rev/min	2-3291 kgm ²
Flywheel	OR PRODUCTION AND ADDRESS OF THE PARTY OF TH
-1500 rev/min	1-96355 kgm ²
-1800 rev/min	1-96355 kgm ²

Performance

Note: All data based on operation to ISO 3046/1, BS5514 and DIN 6271 standard reference conditions.

Cyclic irregularity

Engine / Flywheel maximum:	
-1500 rev/min	1:44
-1800 rev/min	1:60

Ratings

Operating point

Engine speed	. 1500 &	1800 rev/min
Cooling water maximum exit temperature		< 107 °C

Fuel data

To conform to BS2869 class A2 or BS EN590

Test conditions

-air temperature	25 °C
-barometric pressure	00 kPa
-relative humidity	. 30%
-air inlet restriction at maximum power (nominal)	,5 kPa
-exhaust back pressure at maximum power (nominal)	,0 kPa
-maximum fuel temperature (inlet pump)	40 °C
Note: If the engine is to operate in ambient conditions other than the	se of
the test conditions, suitable adjustments must be made for these cha	nges.

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. For test conditions relevant to data on load acceptance, refer to the bottom of page 14.

Sound level

Estimated sound pressure level at 1 metre:	
-1500 rev/min	 .103,1 dB(A)
-1800 rev/min	 .105,2 dB(A)

2506C-E15TAG1

		Type of operation and application								
Designation	Units	Prime	Standby	Prime	Standby					
	1000	50 Hz @ 1	500 rev/min	60 Hz @ 1800 rev/min						
Gross engine power	kWb	412	451	458	514					
Fan power	kWm	8	8,8	15,5						
Restriction losses	kWm	7,2	7,8	8,0	8,8					
ElectropaK nett engine power	kWm	396	435	435	490					
Gross brake mean effective pressure	kPa	2197	2405	2036	2284					
Combustion air flow	m³/min	33,0	35,8	34,3	38,0					
Exhaust gas temperature (max)	°C	N/A	550	N/A	550					
Exhaust gas flow	m³/min	85,0	94,0	96,0	105,3					
Boost pressure ratio	-	3,20	3,40	3,00	3,25					
Overall thermal efficiency (nett)	%	39,9	39,7	44,0	43,4					
Friction and pumping power losses	kWm	4	15		51					
Mean piston speed	m/s	7	8	10						
Engine coolant flow	Vsec	6	6,1		7,2					
Cooling fan air flow (zero duct allowance)	m³/min	722		866						
Turning Con Set als drived a total (0.0 and	kWe	364	400	400	450					
Typical Gen Set electrical output (0.8 pf)	kVA	455	500	500	563					
Assumed alternator efficiency	%	9	92	3	92					



Cooling system

Recommended coolant:

50% inhibited ethylene glycol or 50% inhibited propylene glycol and 50% clean fresh water. Where there is no likelihood of ambient temperatures below 10 °C, clean 'soft' water may be used, treated with 1% by volume of Perkins inhibitor in the cooling system. The inhibitor is available from all Perkins Distributors.

Total system coolant capacity	,0 litres
Maximum pressure:	
-in crankcase water jacket	76 kPa
Maximum top tank temperature	107 °C
Maximum static pressure on pump 1	70 kPa
Maximum permissible restriction:	
-to coolant pump flow	30 kPa
Temperature rise across engine with inhibited coolant:	
-standby power @ 1500 and 1800 rev/min	. 10 °C
-prime power @ 1500 and 1800 rev/min	9°C
Thermostat operation range	o 98 °C

Radiator

-face area	1·238 m²
-weight (dry)	
-rows and materials	2 rows, Aluminium
-matrix density and material	fins per inch, Aluminium
-width of matrix	1048 mm
-height of matrix	
-pressure cap setting (minimum)	69 kPa

Charge cooler with integral radiator

-face area	1.006 m²
-number of rows and material	1 row, Aluminium
-matrix density and material	.12,5 fins per inch, Aluminium
-width of matrix	
-height of matrix	

Coolant pump

Speed:				
-1500 rev/min	 ***	 	 	

-1500 rev/min	1622 rev/min
-1800 rev/min	1946 rev/min
Method of drive	gear

ran	
-diameter	
-drive ratio	
-number of blades	9
-material B3WG6 or PA6GF30 N	Nylon 6 glass filled 30%
-type	ACS 367500

- 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.

Cooling clearance

Ambient cooling clearance (standby power) based on air temperature at fan of 6 °C above the ambient

Duct allowance with	inhibited cool	ant at 50 °C	
Description	rev/min	Units	Standby
Duct allowance	1500	kPa	0.125
	1800	kPa	0.125
Minimum airflow	1500	m³/min	660
	1800	m³/min	822
Duct allowance with	50% glycol at	43 °C	0.
Duct allowance	1500	kPa	0.200
	1800	kPa	0.200
Minimum airflow	1500	m³/min	576
	1800	m³/min	792

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Electrical system

Type
-type
-voltage
-output
Starter
-type
-motor voltage
-motor power
Number of teeth
-on the flywheel
-on starter pinion
Minimum cranking speed
Pull-in current of starter motor solenoid
@ -25 °C max ⁽¹⁾
Hold-in current of starter motor solenoid
@ -25 °C max (1)
1. All leads to rated at 10 amps minimum

Alternator

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



Control Panel









The control module gives digital readouts of:

Generator voltage;

Output frequency;

Engine speed;

Battery voltage;

Engine hours run.



Dimension:3700*1200*2000mm Weight:3400kg



Dimension:4700*2100*2400mm Weight:6300kg 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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