



## Genset

Model	JHP5-900GF
Voltage	230/400V
Frequency&Speed	50HZ;1500RPM
Prime Power	900kW/1125kVA
Standby Power	1000kW/1250kVA

The Perkins® 4000 Series is a family of 6, 8, 12 and 16 cylinder diesel engines, designed to address today's uncompromising demands within the power generation industry with particular aim at the standby market sector.

Developed from a proven engine range that offers superior performance and reliability.

The 4008-30TAG3 is a turbocharged and air-to-air charge cooled, 8 cylinder diesel engine offered in an engine only configuration. Its premium features and design provide economic and durable operation as well as an exceptional power to weight ratio, excellent load acceptance and improved gaseous emissions, plus the overall performance and reliability characteristics essential to the power generation market.

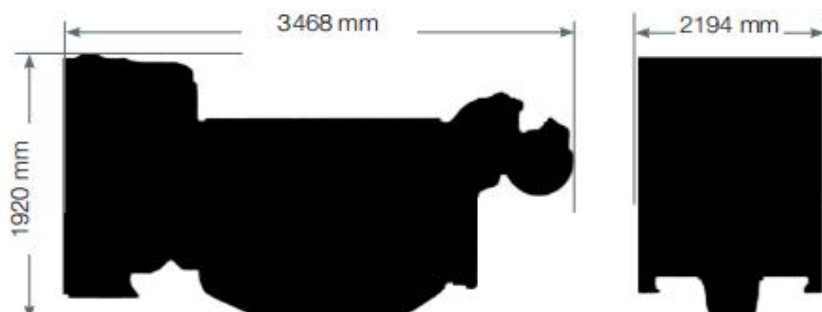
➤ **Engine: Perkins 4008-30TAG3**

➤ **Alternator: Stamford/Leroy Somer**  
**/Hengsheng**

➤ **Controller: DeepSea/SmartGen**  
**/DEIF/ComAp**



Specification		
Number of cylinders	8 vertical in-line	
Bore and stroke	160 x 190 mm	6.3 x 7.5 in
Displacement	30.561 litres	1865 in <sup>3</sup>
Aspiration	Turbocharged and air to air charge cooled	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	13.6:1	
Rotation	Anti-clockwise, viewed from flywheel end	
Total lubricating capacity	153 litres	40.4 US gal
Cooling system	Water-cooled	
Total coolant capacity	48 litres	12.7 US gal



Engine package weights and dimensions		
Length (including air cleaner)	3468 mm	137 in
Width	2194 mm	86 in
Height	1920 mm	76 in
Weight (dry)	4217 kg	9297 lb

Speed rpm	Type of operation	Typical generator output		Engine power (Net)	
		kVA	kWe	kWm	hp
1500	Baseload power	950	760	800	1073
	Prime power	1125	900	947	1270
	Stand-by power	1250	1000	1055	1408

Percent of prime power	Fuel consumption at 1500 rpm g/kWh	Fuel consumption at 1500 rpm V/hr
Standby power	210	269
Prime power	206	244
75%	202	188
50%	204	120

## Technical information

### Air inlet system

- Mounted air filter and turbocharger

### Fuel system

- Direct fuel injection system with fuel lift pump
- Digital governing to ISO 8528-5 Class G2 with isochronous capability
- Full flow spin-on filters

### Lubrication system

- Wet full aluminium sump with filler and dipstick
- Full flow spin-on oil filters

### Cooling system

- Twin thermostats
- System designed for ambient temperatures of up to 50°C

### Electrical equipment

- 24V starter motor and 24V alternator with integral regulator and DC output
- Turbine inlet temperature protection
- High coolant temperature protection switch
- Low oil pressure protection switch

### Flywheel and housing

- Flywheel to SAE J620 Size 18
- SAE 0 flywheel housing

### Optional equipment

- 4 metre wiring harness
- Secondary electric start
- Immersion heater
- Single exhaust outlet pipe
- Exhaust counter flanges
- Temperate radiator kit

## Alternator

Pole No.	4-Pole
Exciter Type	Single bearing, Brushless, Self-excited
Power factor	0.8
Voltage adjust range	$\cong 5\%$
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.

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



Dimension:4880\*2100\*2500mm  
Weight:8000kg



Dimension:6000\*2400\*2900mm  
Weight:10300kg  
Fuel Tank Capacity:1000-3000L

**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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