



Genset

Model	JHP-280GF
Voltage	277/480V
Frequency&Speed	60HZ;1800RPM
Prime Power	286kW/357kVA
Standby Power	316kW/395kVA

The Perkins® 1700 Series is engineered to provide class leading performance and maximise competitive advantage for our customers.

Developed on a latest generation 9.3 litre core, the 1706 offers greater capability and more flexibility to our customers from a simple plug and play product.



Emissions

Fuel optimised.

Specification		
Number of cylinders	6 vertical in-line	
Bore and stroke	115 x 149 mm	4.5 x 5.9 in
Displacement	9.29 litres	566.9 in³
Aspiration	Turbocharged aftercooled	
Cycle	4 stroke DI	
Combustion system	Direct injection	
Compression ratio	16.5	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	26-30 litres	6.9-7.9 US gal
Cooling system	Liquid	
Total coolant capacity	33 litres	8.7 US gal

Control system

- Full electronic control system
- All connectors and wiring looms waterproof and designed to withstand harsh environments
- Flexible and configurable software features and well supported SAE J1939 CAN bus enables highly integrated machines

Flywheels and flywheel housing

- SAE1 flywheel housing

Fuel and fuel system

- Electronic high pressure common rail
- Aluminium sump

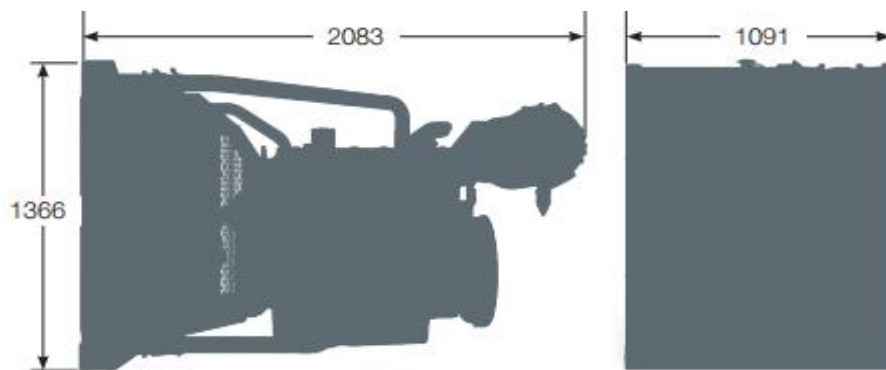
➤ **Engine: Perkins 1706A-E93TAG1**

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

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

Engine model	Speed rpm	Type of operation	Generator output		Engine power			
					Gross		Net	
			kVA	kWe	kWm	hp	kWm	hp
1706A-E93 TAG1	1500	Prime power	307	246	276.3	370.5	267.3	358.4
		Standby power	339	220	304.0	407.7	295.0	395.6
1706A-E93 TAG2	1500	Prime power	348	278	311.4	417.6	302.4	405.5
		Standby power	384	307	343.0	459.9	334.0	447.9
1706A-E93 TAG1/TAG2	1800	Prime power	357	286	325.8	436.9	310.8	416.8
		Standby power	395	316	358.4	480.6	343.3	460.5

Power rating %	Engine model		
	1706A-E93TAG1	1706A-E93TAG2	1706A-E93TAG1/TAG2
	276.3 kW/1500 rpm Prime	311.4 kW/1500 rpm Prime	325.8 kW/1800 rpm Prime
	g/kWh	g/kWh	g/kWh
25	236	227	240
50	205	199	206
75	194	192	197
100	190	190	194
110	189	190	193



Engine package weights and dimensions		
Length (including air filter)	2083 mm	82.0 in
Width	1091 mm	42.9 in
Height	1366 mm	53.8 in
Weight (dry)	1183 kg	2608.5 lb

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

- ✧ 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 drip-proof 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:3100*1150*1700mm
Weight:2200kg



Dimension:4000*1700*2000mm
Weight:4100kg
Fuel Tank Capacity:680L

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

Jiangsu Jianghao Generator Co.,Ltd

Address: No.1 Xixu Road, Medical High-tech Zone,
Taizhou city, Jiangsu, China

Contact Person: Anthony Feng

Email: jhfsale@jhgenerator.com

WhatsApp: +86 18652649673

