



Genset

Model	JHPE5-110GF
Voltage	230/400V
Frequency&Speed	50HZ;1500RPM
Prime Power	114kW/143kVA
Standby Power	126kW/157kVA

Building upon Perkins proven reputation within the power generation industry, the 1100 Series range of Electropak engines now fit even closer to customers needs.

In the world of power generation success is only gained by providing more for less. With the 1106D-E70TAG2 Perkins has engineered even higher levels of reliability, yet lowered the cost of ownership.

1100A units are designed for territories that do not require compliance to EPA or EU emissions legislation. These engines are assembled around optimal, efficient manufacturing processes with state-of-the-art technology. They are built to provide the exact power solution for customers who sell their applications into lesser regulated countries.

Focusing on our common platform theme, changes to engine envelope dimensions and connection points have been kept to a minimum.

Dependable power

- The Perkins® 1106D-E70TAG2 delivers up to 157 kVA standby at 50 Hz and 143 kWe at 60 Hz, providing greater productivity through an improved power to weight ratio
 - This world-class power density has been achieved in a 7 litre engine, using an electronic fuel injection system; making this engine robust for all markets, with the ability to cope with the variation of fuel qualities around the world
- The 1106D has been designed for excellent load acceptance to ensure your facility is powered quickly at all conditions

Low operating costs

- Service intervals are set at 500 hours as standard assuming approved fuels and lubrication oils are used
- Perkins provides comprehensive warranty cover for two years (up to 3,000 hours), with three years on major engine components
- A low usage warranty package is also available

➤ **Engine: Perkins 1106D-E70TAG2**

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

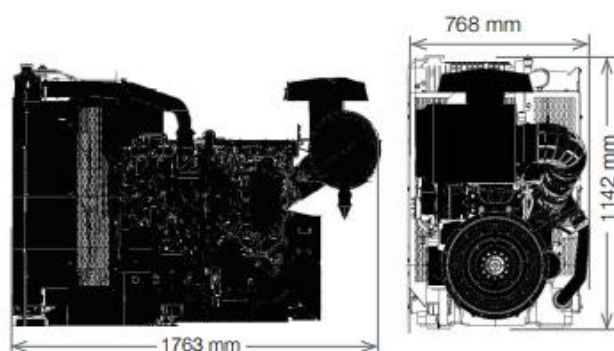
➤ **Controller: DeepSea/SmartGen**
/DEIF/ComAp



World class product support

- Through an experienced global network of distributors and dealers, fully trained engine experts deliver total service support around the clock, 365 days a year. They have a comprehensive suite of web based tools at their finger tips, covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine
- Perkins actively pursues product support excellence by insisting our distribution network invest in their territory to provide you with a consistent quality of support across the globe
- Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts giving 100% reassurance that you receive the very best in terms of quality for lowest possible cost... wherever your Perkins powered machine is operating in the world

Engine Speed rpm	Type of Operation	Typical Generator Output (Net)		Engine Power			
				Gross		Net	
		kVA	kWe	kWm	bhp	kWm	bhp
1500	Prime Power	142	114	131	176	125	168
	Standby (maximum)	157	126	145	194	139	186
1800	Prime Power	169	135	157	210	148	198
	Standby (maximum)	178	143	166	223	157	210



Engine specification

- Tropical radiator pipes and guards
- Flywheel housing
- Flywheel and starter ring
- Oil filters
- Starter motor
- Air cleaners and brackets
- Lubricating oil sump
- Alternator
- Induction manifolds
- Exhaust manifolds
- Fuel filter
- Cold start aid
- Engine mountings

Alternator

Pole No.	4-Pole
Exciter Type	Single bearing, Brushless, Self-excited
Power factor	0.8
Voltage range	adjust $\leq 5\%$
Insulation Grade	H
Protection Grade	IP23/22

Engine Speed	Fuel Consumption					
	1500 rpm			1800 rpm		
	kW	g/kWh	l/hr	kW	g/kWh	l/hr
110% of Prime Power	149.5	213.0	37.8	171.0	212.1	43.1
Prime Power	135.8	216.6	35.0	155.6	214.6	39.7
75% of Prime Power	101.8	229.6	27.8	116.7	231.4	32.1
50% of Prime Power	67.9	233.7	18.9	77.8	240.3	22.2
25% of Prime Power	33.9	250.0	10.1	38.9	263.9	12.2

Engine data

Number of cylinders	Vertical in-line 6 cylinder
Bore and stroke	105 x 135 mm (4.13 x 5.31 in)
Displacement	7.01 litres (428 cubic in)
Aspiration	Turbocharged aftercooled
Cycle	4 stroke
Combustion system	Direct injection
Compression ratio	16.8:1
Engine rotation	Anti-clockwise viewed on flywheel
Cooling system	Liquid
Total lubrication capacity	16.5 litres (4.36 US gal)
Total coolant capacity	21 litres (5.5 US gal)
Dimensions – Length with air cleaner	1763 mm (69.4 in)
Width	768 mm (30.2 in)
Height	1142 mm (45 in)
Dry weight	788 kg (1737 lbs)

Final weight and dimensions will depend on completed specification

- ✧ 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 downstream 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:2300*950*1300mm
Weight:1500kg



Dimension:3300*1300*1800mm
Weight:2600kg
Fuel Tank Capacity:360L

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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