

**MODEL: BF-P150**

**400V | 1500rpm | 50Hz**



<b>ESP</b> Standby Power	<b>148 kVA</b>	<b>PRP</b> Prime Power	<b>135 kVA</b>
<b>ENGINE</b>	<b>Perkins</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>1106A-70TG1</b>		<b>UCI274E1</b>

**GENERAL FEATURES**

Engine: Perkins 1106A-70TG1	Alternator: single bearing, IP23, insulation class H
50°C radiator, fans are driven by belt, with safety guard	Dry type air filter, fuel filter & oil filter
Vibration damper	Standard control panel
24V charging alternator	Exhaust bellows, elbows, flange & muffler
Lead-acid batteries, rack and cables	User manual

Comprehensive Solutions For  
**POWER GENERATION**



**MODEL: BF-P150**

**400V | 1500rpm | 50Hz**

**GENERATOR RATINGS**

Voltage	Hz	Phase	PF ( COSΦ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	194	118kW/148kVA	108kW/135kVA
415/240	50	3	0.8	205	118kW/148kVA	108kW/135kVA
400/230	50	3	0.8	213	118kW/148kVA	108kW/135kVA
380/220	50	3	0.8	224	118kW/148kVA	108kW/135kVA

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820 ( eqv ISO 8528 ) ; A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

Standby Power Rating (ESP): The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

**SALES PROMISES**

Baifa Power provides a full line of brand new and high quality products. Each and every unit is strictly factory tested.

Warranty is according to our standard conditions: 15 months from the date BAIFA sold to the first buyer or one year after installation or 1000 running hours (accumulated), whichever comes first.

Service and parts are available from Baifa Power or distributors in your location.

**MODEL: BF-P150****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Perkins 1106A-70TG1
----------------------	---------------------

Air intake system	Turbocharged and air charge cooled
-------------------	------------------------------------

Fuel system	Direct Injection
-------------	------------------

Cylinder arrangement	6 in line
----------------------	-----------

Displacement	7.01L
--------------	-------

Bore and stroke	105×135 mm
-----------------	------------

Compression ratio	18.2:1
-------------------	--------

Rated speed	1500rpm
-------------	---------

Max. Standby power at rated speed	135.8KW
-----------------------------------	---------

Governor type	Mechanical
---------------	------------

**Exhaust System**

Exhaust gas flow	22.66 m <sup>3</sup> /min
------------------	---------------------------

Exhaust temperature	576°C
---------------------	-------

Max back pressure	6kPa
-------------------	------

**Air Intake System**

Max intake restriction	5kPa
------------------------	------

Combustion air flow	8.09 m <sup>3</sup> /min
---------------------	--------------------------

Air flow required for radiator	252 m <sup>3</sup> /min
--------------------------------	-------------------------

Comprehensive Solutions For

**POWER GENERATION**



**MODEL: BF-P150**

**400V | 1500rpm | 50Hz**

**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	203 g/kWh	29.2 L/h
Fuel consumption @ 75% (Prime Power) Load	204.5 g/kWh	22.1 L/h
Fuel consumption @ 50% (Prime Power) Load	213.9 g/kWh	15.7 L/h

**Oil System**

Total oil capacity	18L
Oil consumption as a percentage of full load fuel consumption less than	0.1%(As a percentage of fuel consumption)
Oil sump capacity	12.5-16.1L

**Cooling System**

Coolant capacity	21L
Max water temperature	110°C



**MODEL: BF-P150****400V | 1500rpm | 50Hz****ALTERNATOR SPECIFICATION**

Industrial alternators meet the requirements of the relevant parts of the BS5000, VDE 0530, NEMA MG1-22, IEC34, CSA 22.2-100 and AS1359.

**Alternator Data**

Number of Phase	3
Connecting Type	3 Phase and 4 Wires, Y type connecting
Number of Bearing	1
Power Factor	0.8
Protection Class	IP23
Altitude	≤1000m
Exciter Type	Brushless exciting
Insulation Class/Temperature Rise	H/H
Telephone Influence Factor (TIF)	< 50
THF	< 2%
Alternator Capacity	140kVA
Alternator Efficiency	91.7%

**MODEL: BF-P150****400V | 1500rpm | 50Hz****GENERATING SET DATA**

Related range of voltage setting	$\geq \pm 5\%$
Steady-state voltage deviation	$\leq \pm 1\%$
Transient voltage deviation (100 % sudden power decrease)	$\leq +25\%$
Transient voltage deviation (sudden power increase)	$\leq -20\%$
Voltage recovery time (100 % sudden power decrease)	$\leq 6S$
Voltage recovery time (sudden power increase)	$\leq 6S$
Related range of frequency setting	0-5% adjustable
Steady-state frequency band	$\leq 1.5\%$
Transient frequency deviation (100 % sudden power decrease)	$\leq +12\%$
Transient frequency deviation (sudden power increase)	$\leq -10\%$
Frequency recovery time (100 % sudden power decrease)	$\leq 5S$
Frequency recovery time (sudden power increase)	$\leq 5S$

**STANDARD FEATURES**

Standard auto control system	Exhaust system (including until muffler)	Documents
Oil drain valve	Starting batteries (maintenance-free & watering-free) with connective wires	MCCB
Base fuel tank		

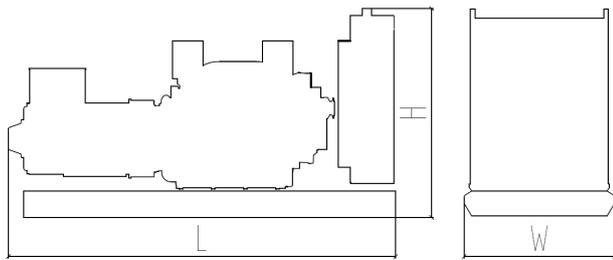
**MODEL: BF-P150**

**400V | 1500rpm | 50Hz**

**OPTIONS**

Daily fuel tank	Rainproof type	Remote control panel
Alternator heater	Soundproof type	Paralleling system
Spare parts	Trailer type	Switch box
Automatic transfer switch		

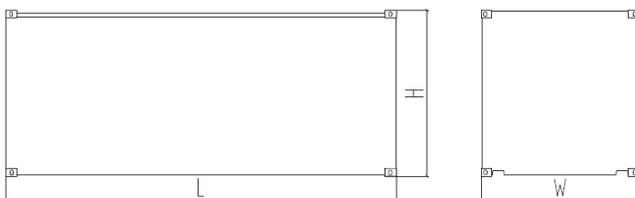
**DIMENSIONS & WEIGHT**



**Standard Configuration (open type)**

Overall Dimensions: 2410 × 930 × 1650 mm

Weight: 1550 kg



**Soundproof Type**

Overall Dimensions: 3250 × 1170 × 1800 mm

Weight: 2350 kg

*Specifications are subject to change without notice.*

**BAIFA POWER (WUXI) LTD.**  
**WEBSITE: WWW.BAIFAPOWER.COM**  
**EMAIL: MARKETING@BAIFAPOWER.COM**  
**TEL: +86-510-85342633**

Comprehensive Solutions For  
**POWER GENERATION**

