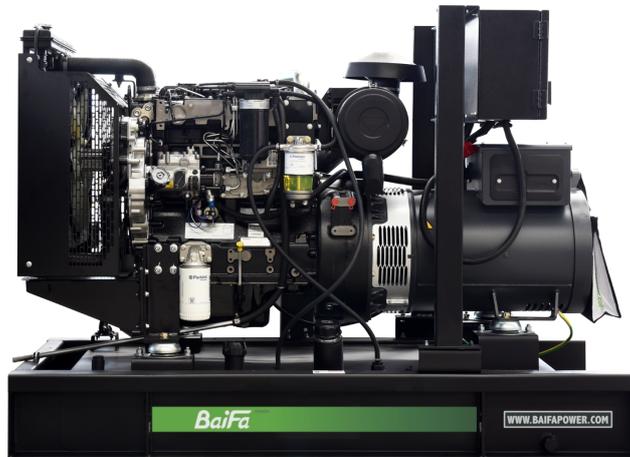


**MODEL: BF-P16**

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



<b>ESP</b> Standby Power	<b>16.5 kVA</b>	<b>PRP</b> Prime Power	<b>15 kVA</b>
<b>ENGINE</b>	<b>Perkins</b> <b>403A-15G2</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b> <b>SOL1-P1</b>

**GENERAL FEATURES**

Engine: Perkins 403A-15G2	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

**MODEL: BF-P16**

**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	22	13.2kW/16.5kVA	12kW/15kVA
415/240	50	3	0.8	23	13.2kW/16.5kVA	12kW/15kVA
400/230	50	3	0.8	24	13.2kW/16.5kVA	12kW/15kVA
380/220	50	3	0.8	25	13.2kW/16.5kVA	12kW/15kVA

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-P16****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Perkins 403A-15G2
----------------------	-------------------

Air intake system	Natural aspirated
-------------------	-------------------

Fuel system	Indirect Injection
-------------	--------------------

Cylinder arrangement	3 in line
----------------------	-----------

Displacement	1.496L
--------------	--------

Bore and stroke	84×90 mm
-----------------	----------

Compression ratio	22.5:1
-------------------	--------

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

Max. Standby power at rated speed	15.1KW
-----------------------------------	--------

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

**Exhaust System**

Exhaust gas flow	2.2 m <sup>3</sup> /min
------------------	-------------------------

Exhaust temperature	470°C
---------------------	-------

Max back pressure	10.2kPa
-------------------	---------

**Air Intake System**

Max intake restriction	6.4kPa
------------------------	--------

Combustion air flow	1 m <sup>3</sup> /min
---------------------	-----------------------

Air flow required for radiator	41.4 m <sup>3</sup> /min
--------------------------------	--------------------------

Comprehensive Solutions For

**POWER GENERATION**



**MODEL: BF-P16**

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

**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	260 g/kWh	4.5 L/h
Fuel consumption @ 75% (Prime Power) Load	251 g/kWh	3.2 L/h
Fuel consumption @ 50% (Prime Power) Load	271 g/kWh	2.3 L/h

**Oil System**

Total oil capacity	6L
Oil consumption as a percentage of full load fuel consumption less than	N/A
Oil sump capacity	4.5-6L

**Cooling System**

Coolant capacity	6L
Max water temperature	112°C



**MODEL: BF-P16****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	15kVA
Alternator Efficiency	82.1%

**MODEL: BF-P16****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		

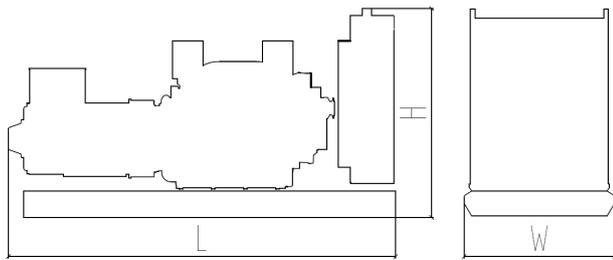
**MODEL: BF-P16**

**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		

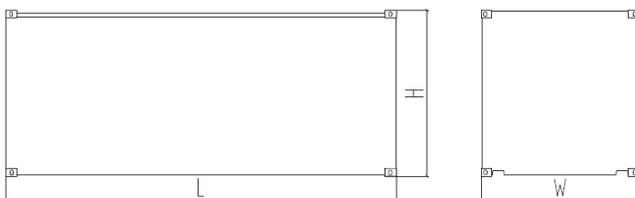
**DIMENSIONS & WEIGHT**



**Standard Configuration (open type)**

Overall Dimensions: 1250×500×1100 mm

Weight: 370 kg



**Soundproof Type**

Overall Dimensions: 1710×880×1350 mm

Weight: 770 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**

