



# LPG/NG GENERATOR SET

**Model:** *P120400 HSB*

**Standby:** *12.0 kVA, 12.0 kW*

**Configuration:** *Enclosed*

**Prime:** *10.0 kVA, 10.0 kW*

Pramac Code: P120400

## DESCRIPTION

Pramac generators are designed and produced to provide the best performing and most reliable product available. All factories are ISO 9001 certified emphasizing our absolute commitment to quality in the design and production of our products. Every generator is 100% factory tested.

Most generators come standard with auto-start capability, full genset monitoring, radiator (liquid-cooled models), battery, engine fluids, oil drain pump, lifting point(s), internal silencer (enclosed models), sound attenuation (enclosed models), failure alarms, heavy duty vibration dampeners, and a 12 month warranty.

## FEATURES

- Heavy duty Subaru EH72 engine
- Clean power with the Mecc Alte S20F-200/A alternator
- Precise genset controls with the GSC200 control unit
- Easy access display of all critical genset measures
- Fully programmable controller (digital versions)
- Full sound and weather attenuation (enclosed configuration)
- Safety guards for all electrical connections and moving parts
- Connect to existing fuel supply
- Emergency stop switch on control panel (not HSB models)
- Easy access for maintenance
- Lockable latches for enclosed models
- Regulator provides 5.0% voltage regulation
- Very efficient alternator, 80.8% @3/4 load
- Engineered vibration dampening system
- Standard lifting system (enclosed models)
- Rugged base frame for versatile application
- Internal silencer (enclosed models)

## GENERAL SPECIFICATIONS - GENSET

(Reference Power conditions are ISO 8528, barometric pressure 100 kPa, temperature 25°C, humidity 30%.)

Standby Power	<b>12.0</b> kVA	
	<b>12.0</b> kW	<b>50.0</b> Amps
Prime Power	<b>10.0</b> kVA	
	<b>10.0</b> kW	<b>41.7</b> Amps
Voltage	<b>240</b> Volt	
Frequency	<b>60</b> Hertz	
Phase	<b>1</b>	
Power Factor	<b>1</b> Cosφ	
One step load acceptance (Speed droop 5%)	<b>0</b> %	
Engine Speed	<b>3600</b> rpm	

## RATING DEFINITIONS

### Prime Rating

Applicable for supplying continuous power at variable loads in lieu of commercially purchased power. This is the maximum power available at variable loads with no limit on the number of annual hours. This rating allows for a 10% overload for a limited number of hours, typically 1 hour every 12 hours.

### Standby Rating

Applicable for supplying continuous power at variable loads in the event of a failure in commercially purchased power. This rating does not allow for any overload.

## SITE DERATING

Local conditions may require derating of the generator output. Use these guidelines for derating as needed: 3% for each 1000 ft. above sea level, 1.5% per 10°F over 77°F, and 1.5% per 10% relative humidity above 30%. Actual derating varies slightly by engine model.

## APPLICATION DATA FOR MODEL P120400 HSB

### ENGINE

Subaru engines are world renowned for their durability, advanced technology and low emissions. The application details for the model used in the P120400 HSB are listed in the table below. More details may be available upon request.

#### ENGINE SPECIFICATIONS

Manufacturer:	<b>Subaru</b>	
Model:	<b>EH72</b>	
Stroke:	<b>4</b>	
Fuel:	<b>LPG/NG</b>	
EPA:	<b>0</b>	
Number and disposition of cylinders:	<b>V-Twin</b>	
Total displacement:	<b>720</b> cc	<b>0.7</b> Liter
Air intake:	<b>Natural</b>	
Starting system:	<b>Electric</b>	
Speed:	<b>3600</b> rpm	
Speed governor:	<b>Mechanical</b>	
Continuous power COP:	<b>NA</b> kW	<b>HP</b>
Prime power PRP:	<b>15</b> kW	<b>20.1</b> HP
Standby power LTP:	<b>18.6</b> kW	<b>24.9</b> HP
Lube oil capacity (max):	<b>1.61</b> Ltr	<b>1.7</b> Qt
Coolant capacity (max):	<b>NA</b> Ltr	<b>NA</b> Qt
Fuel consumption @ 75% PRP:	<b>5.40</b> Ltr/h	<b>1.4</b> Gal/h
Fuel consumption @ 100% PRP:	<b>7.20</b> Ltr/h	<b>1.9</b> Gal/h
Max lube oil consumption @ PRP:	<b>0</b> %	
Electrical circuit:	<b>12</b> Volt	
Engine derating:	<b>1.00</b>	
Battery charger:	<b>12</b> Volt	<b>30</b> Amp
Fan	<b>Mechanical</b>	

### ALTERNATOR

Mecc Alte alternators are among the world leaders in cutting edge technology. This model is a 2 pole, Class H, rated at 14.4kW Prime Power with Capacitor voltage regulation. Complete specs are listed in the table below.

#### ALTERNATOR SPECIFICATIONS

Manufacturer:	<b>Mecc Alte</b>	
Model:	<b>S20F-200/A</b>	
Poles:	<b>2</b>	
Speed:	<b>3600</b> rpm	
Voltage:	<b>240</b> Volt	
Frequency:	<b>60</b> Hz	
Voltage Regulation:	<b>5</b> %	
Frequency Regulation:	<b>5.0</b> %	
Cont. H 125/40°C rating - COP. Basic Continuous:	<b>NA</b>	kVA
Standby 150/40°C rating - PRP. Peak Continuous:	<b>14.4</b> kVA	
Standby 163/27°C rating - LTP:	<b>14.4</b> kVA	
Power factor:	<b>1.0</b> Cosφ	
Standby 150/40° active rating - PRP pick continuous PR active	<b>14.4</b> kW	
Efficiency @ 75% load:	<b>80.8</b> %	
Efficiency @ 100% load:	<b>80.8</b> %	
Admitted overload:	<b>10% per 1h every 12h</b>	
Voltage regulation system:	<b>Capacitor</b>	
Alternator IP protection:	<b>23</b>	
Alternator insulation:	<b>Class H</b>	
Alternator derating:	<b>1.00</b>	

*NOTE: 12 wire alternators are reconnectable to any 3-phase voltage as well as single phase at 2/3 of 3-phase rating.*

# APPLICATION DATA FOR MODEL P120400 HSB

## GENERAL INSTALLATION DATA

Combustion air volume flow @ PRP:	0 m3/min	0.0 ft3/min
Cooling fan air flow rate:	27.67 m3/min	977.3 ft3/min
Exhaust gas volume @ PRP:	2.888 m3/min	102.0 ft3/min
Exhaust gas temperature @ PRP:	648.9 °C	1200.0 °F
Max admitted total exhaust backpressure:	0 mbar	0.0 psi
Recommended exhaust pipe dia. for 5 mt length:	mm	0.0 in
Recommended number and size air intake openings:	n° x m <sup>2</sup>	0.0 n° x ft <sup>2</sup>
Starting Battery:	OPT BCI 26, 450CCA n° x Ah	
Standard Circuit Breaker:	Yes	

## GENSET CONTROL PANEL

Controller	DynaGen, Model GSC200	
Function	Automatic	
Controller functions:		
Shutdowns:	Alarms:	Displays:
Overspeed, Overcrank, Battery condition, Underspeed, Engine oil pressure	Overspeed, Overcrank, Battery condition, Underspeed, Engine oil pressure	Panel indicator lamps
Other	On-Off-Auto settings, Hour Meter, Autostart ready	
Receptacles	1-20A NEMA 5-20R	

## WEIGHTS AND MEASURES

Length:	1200 mm	47.2 in
Width:	740 mm	29.1 in
Height:	775 mm	30.5 in
Weight:	217.7 kg	479.9 Lbs
Fuel tank capacity (location):	(NA) NA Ltr	NA Gal
Running time @ 75% PRP (100% PRP):		#VALUE! hr
Noise pressure level @ 7 mt:		69 dB(A)

## OPTIONS

100A, NEMA 1, 2 POLE LOAD CENTER ATS, NO LOGIC

HEATER OIL 120V 50W HSB

PAD BATTERY 120V 50W HSB

WRAP BATTERY 120V 50W HSB

Contact your authorized Pramac distributor for more information.



Pramac America, LLC  
 1190 Kennestone Circle, Ste 110  
 Marietta, GA 30066  
 770-218-5430 fax 770-218-2810  
 www.pramac.com usa@pramac.com

Distributed by

THIS DOCUMENT IS PROPERTY OF PRAMAC AMERICA - ALL RIGHTS RESERVED

Rev. 1006