



LPG/NG GENERATOR SET

Model: *P120400 +ATS*

Standby: *12.0 kVA, 12.0 kW*

Configuration: *Enclosed*

Prime: *10.0 kVA, 10.0 kW*

Pramac Code: P120401

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

ENGINE

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

ENGINE SPECIFICATIONS

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

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

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 +ATS

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 ² | 0.0 n° x ft ² |
| 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

| |
|---------------------------|
| HEATER OIL 120V 50W HSB |
| PAD BATTERY 120V 50W HSB |
| WRAP BATTERY 120V 50W HSB |
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Contact your authorized Pramac distributor for more information.



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