

### **TECHNICAL DATASHEET / GALAXY-P 105 GX**

24 HOUR SERVICE 7000 4994

## **Performance**

| Continuous power (PRP) | 100.0 | (KVA) |
|------------------------|-------|-------|
| Continuous power (PRP) | 80.0  | (KW)  |
| Stand-by power (LTP)   | 110.0 | (KVA) |
| Stand-by power (LTP)   | 88.0  | (KW)  |
| Power factor           | 0.8   |       |

| VOLTAGE        |     |    |
|----------------|-----|----|
| Frequency (Hz) | 50  | Hz |
| Voltage (V)    | 400 | ٧  |

| DIMENSIONS AND NOISE LEVEL |      |     |
|----------------------------|------|-----|
| Width                      | 1040 | mm  |
| Length                     | 2560 | mm  |
| Height                     | 1805 | mm  |
| Weight                     | 1605 | kg  |
| Sound pressure 7 m.        | 65.0 | dBA |

### **DATA REFERENCES**

Standard reference conditions temperature 25°C, altitude 100m asl, relative humidity 30%, atmospheric pressure 100 kPa (1 bar), power factor 0.8 lag, balanced load – non distortional. Fuel consumption is nominal and refers to specific weight 0.850kg/l. Sound power values refer to free field conditions: the installation site may influence the values. Dimensions, weights and other specifications contained in the technical data sheet and related attachments are nominal, subject to tolerances and refer to the model with standard equipment; any optional and additional equipment/accessories can modify weight, dimensions, performance.

P.R.P. Prime Power-Continuous power at variable load: The power that a genset can supply in continuous service at a variable load for an unlimited number of hours per year while respecting the maintenance intervals established in the environmental conditions stated by the Manufacturer. according to ISO 8528-1. The average power supplied over time and any applicable overload must be less than the percentages stated by the Manufacturer.

L.T.P. Limited-time running power-Limited power: The maximum power that a genset can supply for a limited time respecting the maintenance intervals established in the environmental conditions stated by the Manufacturer according to ISO 8528-1. The number of hours per year is stated by the Manufacturer. Overload is not permitted.

The data contained in this document is nominal and refers to the standard equipped model and is not binding. Psilos Services reserves the right to revise the information without notice per our policy of continuous product development and improvement.



### **STRONG POINTS**

- Industrial diesel engine in genset version with certificate of origin.
- 2. Industrial brushless alternator with AVR.
- 3. Steel baseframe with retention basin and modular steel fuel tank with level sensor.
- 4. Soundproof canopy in galvanized, power coated sheet steel.
- 5. Soundproofing material made of high attenuation polyester fibre.
- 6. Internal exhaust silencer with insulated manifold.
- 7. Electrical panel mounted on board the unit with digital control device installed in metal box.
- 8. Compact for easy handling and use.
- 9. Test report, manuals and electrical drawings supplied.
- 10. World wide after sales service and technical support.

Further details on the technical data sheet

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### **TECHNICAL DATASHEET / GALAXY-P 105 GX**

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# **Engine**

| Engine model 1104C-44TAG2  Cylinders 4 nr.  Speed 1500 r.p.m.  Cubic capacity 4,400 cm³  Air intake Turbocharged  Standard voltage 12 Vdc Vdc  Optional voltage Vdc Vdc  Sae 3-11 1/2  BMEP 1702 kPa  Cooling Water  ENGINE POWER  Flywheel P.R.P. Power 93.6 kW  Flywheel Stand-by Power 102.5 kW  FUEL CONSUMPTION  Fuel Cons. at 100% (L.T.P.) 24.9 l/h  Fuel Cons. at 100% (P.R.P) 17.1 l/h  Fuel Cons. at 50% (P.R.P.) 17.1 l/h  Fuel Cons. at 50% (P.R.P.) 11.2 l/h  Fuel Cons. at 25% (P.R.P.) 11.2 l/h  Fuel Cons. at 25% (P.R.P.) - l/h  SPEED REGULATION  Electronic regulator Standard  Precision class G3  ENGINE DIMENSIONS AND LIQUIDS  Oil quantity 8.0 l  Antifreeze quantity 7.0 l  Radiator standard IM50  HEAT FROM ENGINE  Heat from radiation 46.1 kW  Heat from exhaust 71.7 kW  Heat from exhaust 71.7 kW  Heat from radiation 6.8 kW  EXHAUST DATA  Exhaust temperature 514 °C  Cooling air flow 15.20 m³/min  Combustion air flow 6.01 m³/min   | Engine brand                  | PERKINS       |        |
|--|-------------------------------|---------------|--------|
| Speed   1500   | Engine model                  | 1104C-44TA0   | 62     |
| Cubic capacity         4.400         cm³           Air intake         Turbocharged           Standard voltage         12 Vdc         Vdc           Optional voltage         Vdc         Vdc           Sae         3-11 1/2         BMEP         1702         kPa           Cooling         Water         Water         ENGINE POWER         Flywheel P.R.P. Power         93.6         kW           Flywheel Stand-by Power         93.6         kW         W         FUEL CONSUMPTION         Fuel Cons. at 100% (L.T.P.)         24.9 l/h         Fuel Cons. at 100% (P.R.P.)         17.1 l/h         Fuel Cons. at 75% (P.R.P.)         17.1 l/h         Fuel Cons. at 25% (P.R.P.)         11.2 l/h         Fuel Cons. at 25% (P.R.P.)         - l/h         Fuel Cons. at 25% (P.R.P.)         - l/h         SPEED REGULATION         Standard         Fuel Cons. at 25% (P.R.P.)         - l/h         Fuel Cons. at 25% (P.R.P.)         - l/h         SPEED REGULATION         Standard         Fuel Cons. at 25% (P.R.P.)         - l/h         Fuel Cons. at 25% (P.R.P.)         - l/h         Standard         Fuel Cons. at 25% (P.R.P.)         - l/h         Fuel Cons. at 25% (P.R.P. | Cylinders                     | 4             | nr.    |
| Air intake         Turbocharged           Standard voltage         12 Vdc         Vdc           Optional voltage         Vdc         Vdc           Sae         3-11 1/2         BMEP         1702         kPa           Cooling         Water         ENGINE POWER           Flywheel P.R.P. Power         93.6         kW           Flywheel Stand-by Power         102.5         kW           FUEL CONSUMPTION         Fuel Cons. at 100% (P.R.P.)         24.9 l/h         Fuel Cons. at 100% (P.R.P.)         22.6 l/h         Fuel Cons. at 25% (P.R.P.)         17.1 l/h         Fuel Cons. at 25% (P.R.P.)         11.2 l/h         10.1 l/m         11   | Speed                         | 1500          | r.p.m. |
| Standard voltage         12 Vdc         Vdc           Optional voltage         Vdc         Vdc           Sae         3-11 1/2         BMEP         1702         kPa           Cooling         Water         Water         ENGINE POWER           Flywheel P.R.P. Power         93.6         kW         Flywheel Stand-by Power         93.6         kW         FUEL CONSUMPTION           Fuel Cons. at 100% (L.T.P.)         24.9 1/h         Precl Cons. at 100% (P.R.P.)         22.6 1/h         Preul Cons. at 75% (P.R.P.)         17.1 1/h         Preul Cons. at 50% (P.R.P.)         11.2 1/h         Preul Cons. at 25% (P.R.P.)         11.2 1/h         SPEED REGULATION           Electronic regulator         Standard         Precision class         G3           ENGINE DIMENSIONS AND LIQUIDS         Oil quantity         8.0 1           Antifreeze quantity         7.0 1         Radiator standard         IM50           HEAT FROM ENGINE         Heat from radiator         46.1 kW           Heat from radiator         6.8 kW           EXHAUST DATA         EXHAUST DATA           EXHAUST DATA         Cooling air flow         6.01 m³/min <t< td=""><td>Cubic capacity</td><td>4.400</td><td>cm³</td></t<>   | Cubic capacity                | 4.400         | cm³    |
| Optional voltage         Vdc         Vdc           Sae         3-11 1/2           BMEP         1702 kPa           Cooling         Water           ENGINE POWER         Flywheel P.R.P. Power           Flywheel Stand-by Power         93.6 kW           FUEL CONSUMPTION         Fuel Cons. at 100% (L.T.P.)           Fuel Cons. at 100% (P.R.P)         22.6 l/h           Fuel Cons. at 75% (P.R.P.)         17.1 l/h           Fuel Cons. at 25% (P.R.P.)         11.2 l/h           Fuel Cons. at 25% (P.R.P.)         - l/h           SPEED REGULATION         Standard           Electronic regulator         Standard           Precision class         G3           ENGINE DIMENSIONS AND LIQUIDS         Oil quantity           Oil quantity         8.0 l           Antifreeze quantity         7.0 l           Radiator standard         IM50           HEAT FROM ENGINE         Heat from radiator         46.1 kW           Heat from radiation         6.8 kW           EXHAUST DATA         Exhaust temperature         514 °C           Cooling air flow         6.01 m³/min           Combustion air flow         6.01 m³/min   | Air intake                    | Turbocharge   | d      |
| Sae         3-11 1/2           BMEP         1702         kPa           Cooling         Water           ENGINE POWER  | Standard voltage              | 12 Vdc        | Vdc    |
| BMEP   | Optional voltage              | Vdc           | Vdc    |
| ENGINE POWER           Flywheel P.R.P. Power         93.6         kW           Flywheel Stand-by Power         102.5         kW           FUEL CONSUMPTION           Fuel Cons. at 100% (L.T.P.)         24.9 l/h           Fuel Cons. at 75% (P.R.P.)         22.6 l/h           Fuel Cons. at 50% (P.R.P.)         17.1 l/h           Fuel Cons. at 50% (P.R.P.)         11.2 l/h           Fuel Cons. at 25% (P.R.P.)         - l/h           SPEED REGULATION           Electronic regulator         Standard           Precision class         G3           ENGINE DIMENSIONS AND LIQUIDS           Oil quantity         8.0 l           Antifreeze quantity         7.0 l           Radiator standard         IM50           HEAT FROM ENGINE           Heat from radiator         46.1 kW           Heat from radiation         6.8 kW           EXHAUST DATA           Exhaust temperature         514 °C           Cooling air flow         6.01 m³/min           Combustion air flow         6.01 m³/min   | Sae                           | 3-11 1/2      |        |
| ENGINE POWER  Flywheel P.R.P. Power 93.6 kW  FUEL CONSUMPTION  Fuel Cons. at 100% (L.T.P.) 24.9 I/h  Fuel Cons. at 100% (P.R.P) 22.6 I/h  Fuel Cons. at 50% (P.R.P.) 17.1 I/h  Fuel Cons. at 50% (P.R.P.) 11.2 I/h  Fuel Cons. at 25% (P.R.P.) - I/h  SPEED REGULATION  Electronic regulator Standard  Precision class G3  ENGINE DIMENSIONS AND LIQUIDS  Oil quantity 8.0 I  Antifreeze quantity 7.0 I  Radiator standard IM50  HEAT FROM ENGINE  Heat from radiator 46.1 kW  Heat from exhaust 71.7 kW  Heat from radiation 6.8 kW  EXHAUST DATA  Exhaust temperature 514 °C  Cooling air flow 165.60 m³/min  Combustion air flow 6.01 m³/min  | ВМЕР                          | 1702          | kPa    |
| Flywheel P.R.P. Power 93.6 kW  Flywheel Stand-by Power 102.5 kW  FUEL CONSUMPTION  Fuel Cons. at 100% (L.T.P.) 24.9 l/h  Fuel Cons. at 100% (P.R.P) 22.6 l/h  Fuel Cons. at 75% (P.R.P.) 17.1 l/h  Fuel Cons. at 50% (P.R.P.) 11.2 l/h  Fuel Cons. at 25% (P.R.P.) - l/h  SPEED REGULATION  Electronic regulator Standard  Precision class G3  ENGINE DIMENSIONS AND LIQUIDS  Oil quantity 8.0 l  Antifreeze quantity 7.0 l  Radiator standard IM50  HEAT FROM ENGINE  Heat from radiator 46.1 kW  Heat from exhaust 71.7 kW  Heat from radiation 6.8 kW  EXHAUST DATA  Exhaust temperature 514 °C  Cooling air flow 165.60 m³/min  Combustion air flow 6.01 m³/min  | Cooling                       | Water         |        |
| Flywheel Stand-by Power 102.5 kW  FUEL CONSUMPTION  Fuel Cons. at 100% (L.T.P.) 24.9 l/h  Fuel Cons. at 100% (P.R.P) 22.6 l/h  Fuel Cons. at 75% (P.R.P.) 17.1 l/h  Fuel Cons. at 50% (P.R.P.) 11.2 l/h  Fuel Cons. at 25% (P.R.P.) - l/h  SPEED REGULATION  Electronic regulator Standard  Precision class G3  ENGINE DIMENSIONS AND LIQUIDS  Oil quantity 8.0 l  Antifreeze quantity 7.0 l  Radiator standard IM50  HEAT FROM ENGINE  Heat from radiator 46.1 kW  Heat from exhaust 71.7 kW  Heat from radiation 6.8 kW  EXHAUST DATA  Exhaust temperature 514 °C  Cooling air flow 6.0 lm ³/min   | ENGINE POWER                  |               |        |
| FUEL CONSUMPTION  Fuel Cons. at 100% (L.T.P.)  Fuel Cons. at 100% (P.R.P)  Fuel Cons. at 75% (P.R.P.)  Fuel Cons. at 55% (P.R.P.)  Fuel Cons. at 55% (P.R.P.)  Fuel Cons. at 25% (P.R.P.)  Fuel Cons. at 25% (P.R.P.)  SPEED REGULATION  Electronic regulator  Precision class  G3  ENGINE DIMENSIONS AND LIQUIDS  Oil quantity  Antifreeze quantity  7.0 I  Radiator standard  IM50  HEAT FROM ENGINE  Heat from radiator  Heat from radiator  46.1 kW  Heat from radiation  6.8 kW  EXHAUST DATA  Exhaust temperature  514 °C  Cooling air flow  165.60 m³/min  Combustion air flow  6.01 m³/min   | Flywheel P.R.P. Power         | 93.6          | kW     |
| Fuel Cons. at 100% (L.T.P.)       24.9 l/h         Fuel Cons. at 100% (P.R.P)       22.6 l/h         Fuel Cons. at 75% (P.R.P.)       17.1 l/h         Fuel Cons. at 50% (P.R.P.)       11.2 l/h         Fuel Cons. at 25% (P.R.P.)       - l/h         SPEED REGULATION         Electronic regulator       Standard         Precision class       G3         ENGINE DIMENSIONS AND LIQUIDS         Oil quantity       8.0 l         Antifreeze quantity       7.0 l         Radiator standard       IM50         HEAT FROM ENGINE         Heat from radiator       46.1 kW         Heat from exhaust       71.7 kW         Heat from radiation       6.8 kW         EXHAUST DATA         Exhaust temperature       514 °C         Cooling air flow       165.60 m³/min         Combustion air flow       6.01 m³/min  | Flywheel Stand-by Power       | 102.5         | kW     |
| Fuel Cons. at 100% (P.R.P)  Fuel Cons. at 75% (P.R.P.)  Fuel Cons. at 50% (P.R.P.)  Fuel Cons. at 25% (P.R.P.)  SPEED REGULATION  Electronic regulator  Precision class  G3  ENGINE DIMENSIONS AND LIQUIDS  Oil quantity  Antifreeze quantity  7.0 l  Radiator standard  IM50  HEAT FROM ENGINE  Heat from radiator  Heat from exhaust  71.7 kW  Heat from radiation  6.8 kW  EXHAUST DATA  Exhaust temperature  514 °C  Cooling air flow  165.60 m³/min  Combustion air flow  6.01 m³/min   | FUEL CONSUMPTION              |               |        |
| Fuel Cons. at 75% (P.R.P.)  Fuel Cons. at 50% (P.R.P.)  Fuel Cons. at 25% (P.R.P.)  Fuel Cons. at 25% (P.R.P.)  SPEED REGULATION  Electronic regulator  Precision class  G3  ENGINE DIMENSIONS AND LIQUIDS  Oil quantity  Antifreeze quantity  7.0 l  Radiator standard  IM50  HEAT FROM ENGINE  Heat from radiator  Heat from exhaust  71.7 kW  Heat from radiation  6.8 kW  EXHAUST DATA  Exhaust temperature  514 °C  Cooling air flow  Combustion air flow  6.01 m³/min  | Fuel Cons. at 100% (L.T.P.)   | 24.9          | l/h    |
| Fuel Cons. at 50% (P.R.P.)  Fuel Cons. at 25% (P.R.P.)  SPEED REGULATION  Electronic regulator  Precision class  G3  ENGINE DIMENSIONS AND LIQUIDS  Oil quantity  Antifreeze quantity  7.0 l  Radiator standard  HEAT FROM ENGINE  Heat from radiator  Heat from exhaust  T1.7 kW  Heat from radiation  6.8 kW  EXHAUST DATA  Exhaust temperature  Cooling air flow  165.60 m³/min  Combustion air flow  6.01 m³/min   | Fuel Cons. at 100% (P.R.P)    | 22.6          | I/h    |
| Fuel Cons. at 25% (P.R.P.)  SPEED REGULATION  Electronic regulator  Precision class  G3  ENGINE DIMENSIONS AND LIQUIDS  Oil quantity  Antifreeze quantity  Radiator standard  HEAT FROM ENGINE  Heat from radiator  Heat from exhaust  T1.7 kW  Heat from radiation  EXHAUST DATA  Exhaust temperature  Cooling air flow  Combustion air flow  - I/h  Standard  8.0 l  - I/h  8.0 l  4.0 l  4.1 kW  - I/h  8.0 l  7.0 l  8.0 l  1.0 s  46.1 kW  165.60 m³/min  | Fuel Cons. at 75% (P.R.P.)    |               |        |
| SPEED REGULATION  Electronic regulator Standard  Precision class G3  ENGINE DIMENSIONS AND LIQUIDS  Oil quantity 8.0 l Antifreeze quantity 7.0 l Radiator standard IM50  HEAT FROM ENGINE Heat from radiator 46.1 kW Heat from exhaust 71.7 kW Heat from radiation 6.8 kW  EXHAUST DATA  Exhaust temperature 514 °C  Cooling air flow 165.60 m³/min  Combustion air flow 6.01 m³/min   | Fuel Cons. at 50% (P.R.P.)    | 11.2          | I/h    |
| Electronic regulator Precision class G3  ENGINE DIMENSIONS AND LIQUIDS Oil quantity 8.0 l Antifreeze quantity 7.0 l Radiator standard IM50  HEAT FROM ENGINE Heat from radiator 46.1 kW Heat from exhaust 71.7 kW Heat from radiation 6.8 kW  EXHAUST DATA Exhaust temperature Cooling air flow 165.60 m³/min Combustion air flow 6.01 m³/min  | Fuel Cons. at 25% (P.R.P.)    | - I/h         |        |
| Precision class 63  ENGINE DIMENSIONS AND LIQUIDS  Oil quantity 8.0 l Antifreeze quantity 7.0 l Radiator standard IM50  HEAT FROM ENGINE Heat from radiator 46.1 kW Heat from exhaust 71.7 kW Heat from radiation 6.8 kW  EXHAUST DATA  Exhaust temperature 514 °C Cooling air flow 165.60 m³/min Combustion air flow 6.01 m³/min  | SPEED REGULATION              |               |        |
| ENGINE DIMENSIONS AND LIQUIDS  Oil quantity 8.0 l Antifreeze quantity 7.0 l Radiator standard IM50  HEAT FROM ENGINE Heat from radiator 46.1 kW Heat from exhaust 71.7 kW Heat from radiation 6.8 kW  EXHAUST DATA Exhaust temperature 514 °C Cooling air flow 165.60 m³/min Combustion air flow 6.01 m³/min   | Electronic regulator          | Standard      |        |
| Oil quantity 8.0 l Antifreeze quantity 7.0 l Radiator standard IM50  HEAT FROM ENGINE Heat from radiator 46.1 kW Heat from exhaust 71.7 kW Heat from radiation 6.8 kW  EXHAUST DATA Exhaust temperature 514 °C Cooling air flow 165.60 m³/min Combustion air flow 6.01 m³/min  | Precision class               | G3            |        |
| Antifreeze quantity 7.0 l Radiator standard IM50  HEAT FROM ENGINE Heat from radiator 46.1 kW Heat from exhaust 71.7 kW Heat from radiation 6.8 kW  EXHAUST DATA Exhaust temperature 514 °C Cooling air flow 165.60 m³/min Combustion air flow 6.01 m³/min   | ENGINE DIMENSIONS AND LIQUIDS |               |        |
| Radiator standard IM50  HEAT FROM ENGINE  Heat from radiator 46.1 kW  Heat from exhaust 71.7 kW  Heat from radiation 6.8 kW  EXHAUST DATA  Exhaust temperature 514 °C  Cooling air flow 165.60 m³/min  Combustion air flow 6.01 m³/min   | Oil quantity                  | 8.0           |        |
| HEAT FROM ENGINE  Heat from radiator  Heat from exhaust  71.7 kW  Heat from radiation  6.8 kW  EXHAUST DATA  Exhaust temperature  Cooling air flow  165.60 m³/min  Combustion air flow  6.01 m³/min  | Antifreeze quantity           | 7.0 l         |        |
| Heat from radiator  Heat from exhaust 71.7 kW  Heat from radiation 6.8 kW  EXHAUST DATA  Exhaust temperature 514 °C  Cooling air flow 165.60 m³/min  Combustion air flow 6.01 m³/min   | Radiator standard             | IM50          |        |
| Heat from exhaust 71.7 kW  Heat from radiation 6.8 kW  EXHAUST DATA  Exhaust temperature 514 °C  Cooling air flow 165.60 m³/min  Combustion air flow 6.01 m³/min   | HEAT FROM ENGINE              |               |        |
| Heat from radiation 6.8 kW  EXHAUST DATA  Exhaust temperature 514 °C  Cooling air flow 165.60 m³/min  Combustion air flow 6.01 m³/min  | Heat from radiator            | 46.1          | kW     |
| EXHAUST DATA  Exhaust temperature 514 °C  Cooling air flow 165.60 m³/min  Combustion air flow 6.01 m³/min  | Heat from exhaust             | 71.7 kW       |        |
| Exhaust temperature 514 °C  Cooling air flow 165.60 m³/min  Combustion air flow 6.01 m³/min  | Heat from radiation           | 6.8 kW        |        |
| Cooling air flow 165.60 m³/min Combustion air flow 6.01 m³/min   | EXHAUST DATA                  |               |        |
| Combustion air flow 6.01 m³/min  | Exhaust temperature           | 514           | °C     |
|  | Cooling air flow              | 165.60 m³/min |        |
| Exhaust gas flow 15.20 m³/min  | Combustion air flow           | 6.01 m³/min   |        |
|  | Exhaust gas flow              | 15.20 m³/min  |        |

| EMISSIONS |               |
|-----------|---------------|
| TA Luft   | Not available |
| TA Luft/2 | Not available |
| EPA       | Not available |
| Stage     | Stage 2       |

## **Alternator**

| Alternator brand | STAMFORD  |
|------------------|-----------|
| Alternator model | UC1274C   |
| PRP Power        | 100.0 kVA |
| LTP Power        | 110.0 kVA |

| ALTERNATOR WIRINGS |                                     |
|--------------------|-------------------------------------|
| Connection         | Series star                         |
| Phases             | Three phases with neutral           |
| Winding            | 12 terminals 50-60Hz<br>Winding 311 |
| Terminal Number    | 12 nr.                              |

| ALTERNATOR PROTECTION |    |  |
|-----------------------|----|--|
| IP Protection         | 23 |  |

| VOLTAGE REGULATOR    |        |
|----------------------|--------|
| Electronic regulator | SX460  |
| Precision            | 1.5 ±% |

# **Baseframe**

| Model    | GV060HD |
|----------|---------|
| Capacity | 160 l   |

# Canopy & Silencer

| Canopy model             | GV060    |
|--------------------------|----------|
| Silencer model           | MSR/a 65 |
| Silencer outlet diameter | 76.0 mm  |

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