

GPW60P



Main Features

| | | |
|--------------|------------|-----|
| Frequency | Hz | 50 |
| Voltage | V | 400 |
| Power factor | cos ϕ | 0.8 |
| Phase | | 3 |

Power Rating

| | | |
|-------------------|-----|-------|
| Standby power LTP | kVA | 66.00 |
| Standby power LTP | kW | 53.00 |
| Prime power PRP | kVA | 60.00 |
| Prime power PRP | kW | 48.00 |

Ratings definition (According to standard ISO8528 1:2005)

PRP - Prime Power:

It is defined as being the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output over 24 h of operation shall not exceed 70 % of the prime power.

LTP - Limited-Time running Power:

It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 h of operation per year (whose no more than 300 for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. No overload capability is available.

Engine specifications

| | | |
|-------------------------------------|-----------------|-------|
| Engine manufacturer | Perkins | |
| Model | 1104D-44TG2 | |
| [50Hz] Exhaust emission level | Stage IIIA | |
| Engine cooling system | Water | |
| Nr. of cylinder and disposition | 4 in line | |
| Displacement | cm ³ | 4400 |
| Aspiration | Turbocharged | |
| Speed governor | Electronic | |
| Prime gross power PRP | Kw | 56.60 |
| Maximum gross power LTP | kW | 61.60 |
| Oil capacity | l | 8.00 |
| Coolant capacity | l | 16.50 |
| Fuel | Diesel | |
| Specific fuel consumption @ 75% PRP | 232.00 | |
| Specific fuel consumption @ PRP | 235.00 | |
| Starting system | Electric | |
| Starting engine capability | kW | 3.20 |
| Electric circuit | V | 12 |

Engine Equipment

Standards

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS 5514/1

Fuel system

Rotary type pump

Lube oil system

Wet steel sump with filler and dipstick

Filter

- Fuel filter
- Air filter
- Oil filter
- Additional water separator filter

Cooling system

- Mounted radiator
- Thermostatically-controlled system with belt driven coolant pump and pusher fan



Alternator Specifications

| | | |
|-----------------------|-------------|-------|
| Alternator | Leroy Somer | |
| Model | LSA42.3 L9 | |
| Voltage | V | 400 |
| Frequency | Hz | 50 |
| Power factor | $\cos \phi$ | 0.8 |
| Type | Brushless | |
| Poles | 4 | |
| Standard AVR | R438 | |
| Voltage tolerance | % | 0.5 |
| Efficiency @ 75% load | % | 91.40 |
| Class | H | |
| IP protection | 23 | |



SPECIALLY ADAPTED TO APPLICATIONS

The LSA 42.3 alternator is designed to be suitable for typical generator applications, such as: backup, marine applications, rental, telecommunications, etc.

TOP OF THE RANGE ELECTRICAL PERFORMANCE

- Class H insulation.
- Standard 12 wire re-connectable winding, 2/3 pitch, type no. 6.
- High efficiency and motor starting capacity.
- R 791 interference suppression conforming to standard EN 55011 group 1 class B standard for European zone (CE marking).

EXCITATION AND REGULATION SYSTEM

- Excitation system: AREP
- Voltage A.V.R.: R 438

REINFORCED MECHANICAL STRUCTURE

- Compact rigid assembly to better withstand generator vibrations.
- Steel frame.
- Aluminium flanges and shields.
- single-bearing designed to be suitable for heat engines.
- Half-key balancing bearing.
- Permanently greased bearing (20 000h).

PROTECTION SYSTEM SUITED TO THE ENVIRONMENT

- The LSA 42.3 is IP 23.
- Winding Protection System 2: reinforced insulation for tropical environment (abrasive atmosphere), rental (except for coastal area), relative humidity > 95%

COMPLIANT WITH INTERNATIONAL STANDARDS

The LSA 42.3 alternator conforms to the main international standards and regulations:

- IEC 60034, NEMA MG 1.32-33, ISO 8528-3, CSA C22.2 n°100-14, UL 1146 (UL 1004 on request), marine regulations, etc.

It can be integrated into a CE marked generator.

The LSA 42.3 is designed, manufactured and marketed in an ISO 9001 environment and ISO 14001.

Genset equipment

BASE FRAME MADE OF WELDED STEEL PROFILE, COMPLETE WITH:

- Galvanized skid with forklift pockets and pull bar for easy maneuverability and site positioning

METAL FUEL TANK WITH THE FOLLOWING COMPONENT:

- . Equipped with leak proof tray (Genset liquids retention)

ENGINE COMPLETE WITH:

- Battery
- Liquids (no fuel)



CANOPY:

- Soundproof canopy RAL 9016 made up of modular panels, realized with zinc steel as treatment against corrosion and aggressive conditions, properly fixed with rivets and sealed allowing a full weatherproof enclosure.
- Exhaust silencer integrated in the genset shape with flat rain flap.
- Removable lateral panel (both sides) for large access to complete genset for any extraordinary maintenance task
- Control panel protection door provided with suitable window and lockable handle.
- Detachable lifting bridge with placed on the roof.
- New air inlet shaping for high water protection



SOUNDPROOF:

- Noise attenuation thanks to soundproofing material
- Soundproofing by means washable and fireproof soundproofing material.
- Efficient residential silencer placed inside the canopy

Dimensional data

| | | |
|--------------------|--------|-------|
| Length | (L) mm | 2400 |
| Width | (W) mm | 1000 |
| Height | (H) mm | 1845 |
| Dry weight | Kg | 1405 |
| Fuel tank capacity | l | 300 |
| Fuel tank material | | Metal |

Autonomy

| | | |
|-----------------------------|-----|-------|
| Fuel consumption @ 75% PRP | l/h | 12.00 |
| Fuel consumption @ 100% PRP | l/h | 16.50 |
| Running time @ 75% PRP | h | 25.00 |
| Running time @ 100% PRP | h | 18.20 |

Noise level

| | | |
|----------------------------|-------|----|
| Noise pressure level @ 7 m | dB(A) | 62 |
|----------------------------|-------|----|

Electrical Data

| | | |
|------------------|----|-------|
| Battery capacity | Ah | 100 |
| Nominal current | A | 86.60 |



ACP - Automatic control panel

Mounted on the genset, complete with digital control unit for monitoring, control and protection of the generating set, protected through door with lockable handle.

DIGITAL INSTRUMENTATION

- Generating set voltage (3 phases).
- Mains voltage.
- Generating set frequency.
- Generating set current (3 phases).
- Battery voltage.
- Power (kVA - kW - kVAr).
- Power factor Cos ϕ .
- Hours-counter.
- Engine speed r.p.m.
- Fuel level (%).
- Engine temperature (depending on model)

COMMANDS AND OTHERS

- Four operation modes: OFF - Manual starting - Automatic starting - Automatic test.
- Pushbutton for forcing Mains contactor or Genset contactor.
- Push-buttons: start/stop, fault reset, up/down/page/enter selection.
- Remote starting availability.
- DC system disconnection switch.
- Acoustic alarm.
- Automatic battery charger.
- USB port.
- Settable PASSWORD for protection level.
- 4 heavy duty copper bars for power cables

PROTECTIONS WITH ALARM

- Engine protections: low fuel level, low oil pressure, high engine temperature.
- Genset protections: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage

PROTECTIONS WITH SHUTDOWN

- Engine protections: low fuel level, low oil pressure, high engine temperature,
- Genset protection: under/over voltage, overload, under/over battery voltage, battery charger failure.
- Circuit breaker protection: 4 poles.



SOCKET PANEL

| | | |
|--|----|---|
| Socket 3P+N+G 400V 16A IP67 | N° | 1 |
| Socket 3P+N+G 400V 63A IP67 | N° | 1 |
| Socket 3P+N+G 400V 32A IP67 | N° | 1 |
| Socket 2P+G 230V 16A IP67 | N° | 1 |
| SCHUKO SOCKET 16A 2P+T 230V IP68 | N° | 1 |
| Socket Circuit breaker 1pole 16A C curve 30mA | N° | 2 |
| Socket Circuit breaker 4poles B curve 16A | N° | 1 |
| Socket Circuit breaker 4poles B curve 63A | N° | 1 |
| Socket Circuit breaker 4poles B curve 32A | N° | 1 |
| Socket Circuit breaker RD2 (differential protection) | N° | 1 |



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