GENERAC

PME30S



| Main Features | | |
|----------------------|-------|-----|
| Frequency | Hz | 50 |
| Voltage | V | 400 |
| Power factor | cos φ | 8.0 |
| Phase and connection | | 3 |

| Power Rating | | |
|-------------------|-----|-------|
| Standby power LTP | kVA | 33.66 |
| Standby power LTP | kW | 26.93 |
| Prime power PRP | kVA | 30.57 |
| Prime power PRP | kW | 24.46 |

Ratings definition (According to standard ISO8528 1:2005)

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 | | 1103A-33G |
| [50Hz] Exhaust emission level | | Non Emission Certified |
| Engine cooling system | | Water |
| Nr. of cylinder and disposition | | 3 in line |
| Displacement | cm ³ | 3300 |
| Aspiration | | Natural |
| Speed governor | | Mechanical |
| Prime gross power PRP | kW | 28.2 |
| Maximum gross power LTP | kW | 31 |
| Oil capacity | I | 8.3 |
| Lube oil consumption @ PRP (max) | % | 0.15 |
| Coolant capacity | I | 10.2 |
| Fuel | | Diesel |
| Specific fuel consumption @ 75% PRP | g/kWh | 214.5 |
| Specific fuel consumption @ PRP | g/kWh | 211.5 |
| Starting system | | Electric |
| Starting engine capability | kW | 3 |
| 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

Cooling system

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

| Alternator Specifications | | |
|---------------------------|-------|-------------|
| Alternator | | Leroy Somer |
| Model | | LSA42.3VS3 |
| Voltage | V | 400 |
| Frequency | Hz | 50 |
| Power factor | cos ф | 0.8 |
| Type | | Brushless |
| Poles | | 4 |
| Voltage regulation system | | Electronic |
| Standard AVR | | R438 |
| Voltage tolerance | % | 0.5 |
| Efficiency @ 75% load | % | 89.4 |
| Class | | Н |
| 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 for clean environments with relative humidity ≤ 95%, including indoor marine environments.

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.



BASE FRAME MADE OF WELDED STEEL PROFILE, COMPLETE WITH:

- · Anti-vibration mountings properly sized
- · Welded support legs

PLASTIC FUEL TANK WITH THE FOLLOWING COMPONENT:

- · Filler neck
- · Air breather (ventilation pipe)
- · Minimum fuel level sensor

OIL DRAININ PIPE WITH CAP:

· Oil draining facilities

ENGINE COMPLETE WITH:

- · Battery
- · Liquids (no fuel)

CANOPY:

- Soundproof canopy made up of modular panels, realized with zinced steel as treatment against corrosion and aggressive conditions, properly fixed and sealed allowing a full weatherproof enclosure.
- Easy access to the genset for maintenance purposes thanks to: Wide lateral access doors fixed by stainless steel hinges and provided with plastic lockable handles and internal perforated galvanized steel-sheet; Detachable panels, with screws holes protected by rubber tap.
- Control panel protection door provided with suitable window and lockable handle.
- Lateral air inlet opening properly protected and soundproofed. Exhaust air outlet from the roof, trough wet section protected by proper grid.
- · Single detachable lifting eye placed on the roof.

SOUNDPROOF:

- Noise attenuation thanks to soundproofing material
- · Efficient residential silencer placed inside the canopy











| Dimensional data | | |
|--------------------|--------|------|
| Length | (L) mm | 2000 |
| Width | (W) mm | 920 |
| Height | (H) mm | 1310 |
| Dry weight | Kg | 845 |
| Fuel tank capacity | I | 68 |



| Autonomy | | |
|-----------------------------|-----|-------|
| Fuel consumption @ 75% PRP | l/h | 5.37 |
| Fuel consumption @ 100% PRP | l/h | 7.10 |
| Running time @ 75% PRP | h | 12.66 |
| Running time @ 100% PRP | h | 9.58 |

| Noise level | | |
|------------------------------|-------|----|
| Guaranteed noise level (LWA) | dB(A) | 93 |
| Noise pressure level @ 7 mt | dB(A) | 64 |

| Installation data | | |
|-------------------------------|--------|-----|
| Exhaust gas flow @ PRP | m³/min | 5.7 |
| Exhaust gas temperature @ LTP | °C | 500 |

| Data Current | | |
|------------------|----|-------|
| Battery capacity | Ah | 70 |
| MAX current | А | 48.59 |
| Circuit breaker | A | 50 |

| Control panel availability | |
|----------------------------|-----|
| AUTOMATIC CONTROL PANEL | ACP |

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.
- RS232 Communication port.
- · Settable PASSWORD for protection level.

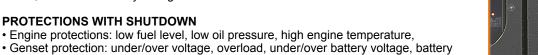
PROTECTIONS WITH ALARM

- 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

- · Genset protection: under/over voltage, overload, under/over battery voltage, battery charger failure.
- · Circuit breaker protection: III poles.
- · Earth Fault included in the control unit.

OTHERS PROTECTIONS

- Emergency stop button.
- Panel protected through door with lockable handle.





OUT PUT PANEL ACP

| Plinth row for connection from ACP to LTS panel. | √ |
|--|---|
| Power cables connection to Circuit Breaker. | √ |





Supplements:

Only Available when order

CONTROL PANEL SUPPLEMENT

| RCG - Various supplements for remote controls - available for models: | ACP |
|---|-----|
| TLP - Various supplements for remote signals - available for models: | ACP |
| ADI - Adjustable Differential Intensity - available only for models: | ACP |
| TIF - IV Poles Circuit Breaker instead of III - available for models: | ACP |
| ETB - External Terminal Board - available for models: | ACP |



GENSET EQUIPMENT

| KPR - Premium Kit (Leak Proof Tray - Leakage detection sensor - Manual oil drain pump) | |
|--|-----|
| AFP - Automatic Fuel Pump | ACP |

Extended Fuel Tank

| Fuel tank capacity | 1 | 450 |
|--------------------|--------|------|
| Length (Genset) | (L) mm | 2005 |
| Width (Genset) | (W) mm | 1066 |
| Height (Genset) | (H) mm | 1812 |



ENGINE SUPPLEMENTS

| PHS - Coolant Pre-Heating System - available for models: ACP | PHS - Coolant Pre-Heating | System - available for models: | ACP |
|--|---------------------------|--------------------------------|-----|
|--|---------------------------|--------------------------------|-----|

LTS - LOAD TRANSFER SWITCH - Accessories ACP

The Load Transfer Switch (LTS) panel operates the power supply changeover between the generator and the Mains in backup applications, guarantying the feeding to the load within a short period of time.

It consists of a standalone cabinet which can be installed separate from the generating set. The logic control of the power supply changeover is operated by means of the Automatic Control panel mounted on the generating set, so therefore none logic device is required on the LTS panel.



NOMINAL CURRENT & DIMENSIONS PANEL LTS (standard*)

| Nominal Current | A | 60 |
|-------------------------------------|--------|-----|
| Width | (W) mm | 400 |
| Height | (H) mm | 400 |
| Depth | (D) mm | 240 |
| Weight | Kg | 14 |
| * = Available electrical power more | | |

