TLN

Specification of generator set





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Specification of genset

Main parameters

Prime power: 36kW/45kVA

Standby power: 40kW/50kVA

Frequency: 50Hz

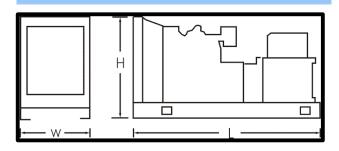
Rated speed: 1500r/min

Rated Voltage: 380/400/415V

Factor: 0.8

Start mode: DC12V/electrical start

Size and Weight



Model: SBL50

Weight Size L×W×H (mm)

(Kg)

Open type: $2210 \times 760 \times 1570$ 1090

Silent type: $2470 \times 1100 \times 1820$ 1440

Operation conditions

Operation temp: ≤40°C

≤1000米 altitude:

Humidity: ≤60%

Note:

- 1. When the ambient temperature is higher than 40°C or the altitude is higher than 1000 meters, the power decreases, which needs to be corrected.
- 2. Excessive humidity requires corresponding measures.

Remark

- Prime Power (PRP): Refers to the unit can run continuously for 24 hours under variable load, allowing 10% overload every 12 hours for 1 hour. •
- Standby power (ESP): at an average load rate of 80%, for no more than 500 hours a year. No overload is allowed.
- Each unit has passed the load test of 0%, 25%, 50%, 75%, 100%, 110% and static, transient response capacity, all protection devices and control systems have passed strict inspection before the factory qualified
- Warranty: one year or 1000 hours from the first startup after commissioning or 18 months from shipment date (whichever comes first).



Specification of engine

Model: 4M06G50/5

Engine parameters

Manufacturer:Baudouin

Aspiration: Turbocharged

Cooling: Water-cooling

• No. of cylinder/arrangement: 4/in-line

• Displacement: 2.3L

Bore: 89mm

Stroke: 92mm

Compression Ratio: 17.5:1

Rated speed: 1500r/min

Prime/standby power: 44kW/48kW

Dry weight: 274kg

Governor: Electronic

Lubrication system

Oil capacity Low / High: 9.5L

Oil pressure in normal condition: 2~5Bar

Max. oil temperature: 115℃

Fuel consumption

• Max. restriction at fuel pump inlet:0.5Bar

Max. fuel inlet temperature:70 °C

Fuel supply flow: 45L/hr

Exhaust system

• Max. exhaust back pressure:80mBar

• Exhaust flow @ PRP: 8.82m³/min

• Exhaust flow @ ESP: 9.42m³/min

Air Induction system

Air intake restriction clean filter: ≤ 35 mBar

Air intake restriction dirty filter : ≤ 60 mBar

• Recommended air flow @ PRP: 2.6m³/min

Recommended air flow @ ESP : 2.7m³/min

Cooling system Min. pressure in cooling system: 0.15Bar

● Thermostat opening temperature: 72 / 82 °C

Coolant capacity of the engine: 5L



Specification of alternator

Model: TAL A42 F

Alternator parameters

Manufacturer: leroy-somer

Rated voltage: 380/400/415V

Rated frequency: 50Hz

• Power factor: 0.8

Rated power: 36kW/45kVA

Insulation class: H

Temp. Rise class: H

Protection: IP23

Ambient temperature: 40℃

Altitude: ≤1000m

Overspeed: ≤2250rpm

Features

Phases: 3

• Winding pitch: 2/3

• No. of Bearing: 1

Connection type: Star

• Poles: 4

• Waveform Distors. (THD): <5%

Telephone Interference (THF): <2%



SWT control system-standard for single unit



Note: the picture is for reference only. The specific model is subject to the formal quotation

Please refer to "SWT parallel system" if sychronising units are required.

Features

- LCD Screen, keys operation
- Multilingual display
- Control and protection functions
- Engine and alternator parameter detection
- Local and remote start
- Reasonable keys layout, friendly interface
- Multiple communication interfaces available
- Event logs
- IP65 overall

Control box (Templet)



Features

- User ID display function
- Parameters can be fully configured through PC software
- LED and LCD alarm lamps
- Magnetic sensor speed detection
- ■□□ Work mode selectors (switchable)
- Preset auto start/stop cycle
- Fuel quantity detection, low oil level alarm
- Voltage measurement
- Current measurement
- Generator /mains circuit breaker control
- Plug terminal type wiring design
- Power saving mode
- Switch between generator /mains load
- Upgradeable Firmware

Operation brief

- It is controlled by start, stop, auto and manual buttons on the panel
- The user can set the data of the module through the panel button, or the setting data can be uploaded through the configuration operation software via USB interface

Advantage

- The real-time clock provides accurate event logging
- Provide free PC software license
- Advanced PCB layout ensures high quality of modules
- Modular design, excellent stablility
- Various communication interfaces available



ATS (Auto transfer system) optional



Function

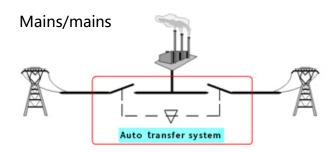
Particular ATS controller, which combines measurement, display, control for the automatic control on mains/mains or mains/ generator system.

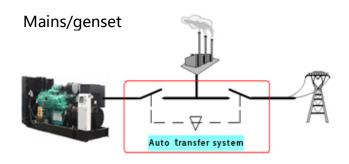
Note: communication function requires extra communication module. The picture is for reference only. The specific model is subject to the quotation

Features

- Microcomputer control, all digital technology
- Display the operating state of ATS and the operation mode of controller directly through the LCD screen
- Operating parameters can be input via the LCD screen and the keys of controller
- Measuring data (including voltage/frequency) through LCD screen
- PC-level switch and electromagnetic driven structure can realize fast on-load switching of two power sources (switching time ≤80ms)
- Electrical and mechanical double interlock mechanism, the main loop contact for the two static structure, the moving contact using a "V" design, from the design to ensure that the two power supply will not be shortcircuit.
- Coil control power supply can be provided by the main and standby AC or DC power supply, without additional control power supply

Case







SWT paralleling system (Optional)

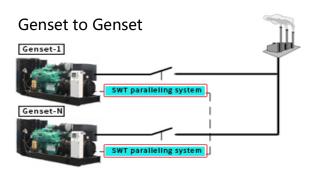
Function

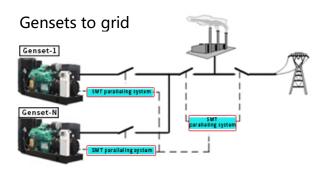
SWT paralleling system is specially designed for gensets & grid system paralleling (set to set or set to grid), up to 32 units synchronise automatically, realize the automatic starting unit automatic parallel operation, and according to the load size the number of units in operation or exit the operation. When mains return to normal, the unit will automatically discharge and cooling down, the system can start paralleling mains grid, automatic transfer and PLC control load can also be customized upon customer requirements, the control of multiple load and multiplex mains SWT paralleling system can also be used with ATS.

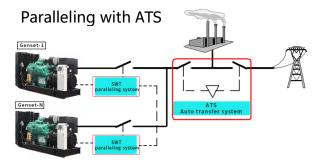
Features

- SWT paralleling system comprises international famous brand controller. PLC system, touch screen etc are available upon customer requests
- Integrated with advanced control technology, perfect function, safe, durability and reliability.
- Smart and flexible, one machine one screen, the unit can be used independently or parallelly
- Easy to operate, fully automatic, Chinese and English operating system, built-in fault detection
- The system can automatically input the appropriate number of units according to the load size to avoid the operation of high-power units with small load and realize the off- peak control
- Easy to expand capacity, just install the required power units, convenient to add units for the expansion in the future.

Case









Accessories list

->>>>

Standard accessories



- Engine
- Alternator
- Chassis
- Control box
- Controller for single unit
- Circuit breaker (up to 1200kW)
- Industrial muffler
- Flange of muffler
- Bellow joint

Trailer

- Shock absorber
- Base tank (up to 200kW)

Auto oil make-up device

Auto fuel filling device

Soundproof enclosure

Containerized enclosure

- Test report
- Certificate of quality
- Schematic diagram
- Installation manual
- Operation manual

((((- -Optional accessories Exhaust pipe ComAp controller Daily fuel tank/bulk fuel tank Hot air discharge duct MRS16 Residential silencer RS485 extension module AMF25 Power cable Ethernet communication IG200 Anti condensation heater (alternator) Cloud monitor **IG-NTC** battery charger ATS panel IM-NT Water jacket heater Motorized circuit breaker Smartgen controller Oil heater Synchronizing system HGM4010 Fuel level sensor Spare parts HGM4020

Deepsea controller

DSE6020

DSE8610

DSE8620

DSE8660

☐ DSE7320

 \Box

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