

62.5KVA Generator Set

| Engine | Alternator | Powered by | CONTROLLER |
|----------------------|-------------|------------------|--------------------|
| WEICHAI WP2.3D58E201 | LEROY-SOMER | WEICHAI | Deep Sea (DSE6120) |
| Frequency | Phase | Power Factor | Emissions |
| 60Hz/1800rpm | 3-Phase | Factor Cos = 0.8 | N/A |

Generator Set Specifications

| Item | Parameter |
|-----------------------------|-----------------------------|
| Silent Box Size (L*W*H mm) | 2200*800*1200 |
| Rated Power (KW) | 50 |
| Rated Current (A) | 90 |
| Starting Method | DC12V Electric Start |
| Base Fuel Tank Capacity (L) | 100 |
| Rated Voltage (V) | 400/230 |
| Regulation Mode | Electronic Speed Regulation |

Engine Specifications

| Item | Parameter |
|------------------------|--------------------------------------|
| Model | WP2.3D58E201 |
| Rated Power (KW) | 53 |
| Standby Power (KW) | 58.3 |
| Fuel Consumption (L/h) | 10-11 |
| Intake Method | Turbocharged & Inter-cooler |
| Type | Four-stroke, Inline 4-cylinder |
| Cooling Method | Water-cooled with intergral radiator |

Alternator Specifications

| Item | Parameter | Item | Parameter |
|-------------------------|-------------|--|-------------------|
| Brand | Leroy-Somer | Voltage Stabilization Time (s) | 4S |
| Model | TAL-A46-H | Frequency Fluctuation (%) | ≤0.5% |
| Excitation Mode | Brushless | Frequency Stabilization Time (s) | 3S |
| Stator Material | Pure Copper | Instantaneous Voltage Regulation (%) | +20% ~ -15% |
| Protection Class | IP23 | Steady-state Voltage Regulation (%) | ≤±0.25% |
| Insulation Class | H | Instantaneous Frequency Regulation (%) | +10% ~ -7% |
| Voltage Fluctuation (%) | ≤0.5% | Steady-state Frequency Regulation (%) | 0~5% (Adjustable) |

Key Features

- High-efficiency water-cooled diesel engine for reliable and consistent performance.
- Single bearing, brushless alternator with Class H insulation and AVR for stable power output.
- Advanced cooling system with radiator, pressure cap, and drain point.
- Fully guarded engine-driven fan for enhanced safety.
- Heavy-duty welded steel skid base, designed with lifting holes and forklift slots for easy handling.
- Integral fuel tank with filler cap and gauge (≤650kVA) for extended operation.
- Robust anti-vibration rubber mountings to minimize wear and ensure stability.
- 12V / 24V maintenance-free starter battery with cables, plus an engine-driven charging alternator.
- Easy maintenance design with spin-on oil and fuel filters and a dry-type air filter.
- Industrial silencer (up to 15dBA noise reduction) supplied loose for flexible installation.
- Auto-start control system with LCD display for efficient monitoring and operation.
- Integrated battery charger for reliable starting power.
- Main line 3P circuit breaker for safe and secure operation.
- Rigorous factory testing with IEC standard compliance to ensure quality.
- Supplied with Operation & Maintenance manual and wiring diagrams.
- Optional extra features available to meet different application needs.

Ratings

- Three-phase generator sets are rated at a 0.8 power factor.
- Single-phase generator sets are rated at 0.8 or 1.0 power factor depending on the application.

(1) PRP – Prime Power

Designed for continuous operation under variable load, serving as an alternative to commercially purchased power. Units can run unlimited hours per year in accordance with ISO 8528-1. An overload capacity of 10% is permitted for 1 hour in every 12 hours of operation as per ISO 3046-1.

(2) ESP – Emergency Standby Power

Intended for standby use in the event of a mains/utility power failure. Provides reliable backup under variable load conditions in compliance with ISO 8528-1.

(3) STD – Standard Alternator

Indicates the use of a standard alternator configuration for the generator set.

