| 2000 KVA MTU DIESEL GENERATOR SPECIFICATION | |
|---|---|
| **Model** | **UM2000GF** |
| **Standby Power(60HZ)** | **1600KW / 2000KVA** |
| **Prime Power(60HZ)** | **1455KW / 1818KVA** |

## Standard Features

General Features

- Engine(MTU 12V4000G83S)
- Radiator, fans are driven by belt
- 24V starter and charge alternator
- Alternator (Stamford S7L1D-D41)
- Base frame
- Vibration damper
- Control panel with DSE7320 controller
- Batteries, rack and cable
- Ripple flex exhaust pipe, bellows, flange, muffler.
- User manual, Test report, etc

## Generator Ratings

| voltage | HZ | phase | P.F | Prime Amps | Standby power (KVA) | Prime power (KVA) |
|---|---|---|---|---|---|---|
| 220/127V | 60 | 3 | 0.8 | 4772A | 2000 | 1818 |
| 416/240V | 60 | 3 | 0.8 | 2523A | 2000 | 1818 |
| 440/254V | 60 | 3 | 0.8 | 2385A | 2000 | 1818 |

Prime power (PRP): Prime power is available for an unlimited number of annual hours in available load application, in according with GB/T2820-97(EQVLso8528); A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

Standby power Rating (ESP) ; The standby power rating is application for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

## Sales Promises

We provide a full line of brand new and high quality products. Each and every unit is strictly on load test before delivery. Warranty is according to our standard conditions: 12 months or 1500 running hour's, subject to the earlier one. Service and parts are available from our factory or distribution in your location.

## ENGINE DATA

| | |
|---|---|
| Manufacturer /Model | MTU 12V4000G83S |
| Air intake System | Turbocharged and low temperature Aftercooled |
| Cooling system | water cooled |
| Cylinder Arrangement | 12 cylinder 60° Vee |
| Displacement | 57.2L |
| Bore and Stroke | 170*210(MM) |
| Compression Ratio | 16.5:1 |
| Rated RPM | 1800rpm |
| Prime power at rated RPM | 1736KW |
| Max standby power | 1910KW |
| Oil capacity | 260L |
| Governor | Electronic |
| Fuel consumption (output power 100%) | 198g/kw.h; 338L/hr |
| Cooling way | Water Radiator & Fan |
| System coolant capacity | 583L |

## ALTERNATOR SPECIFICATION

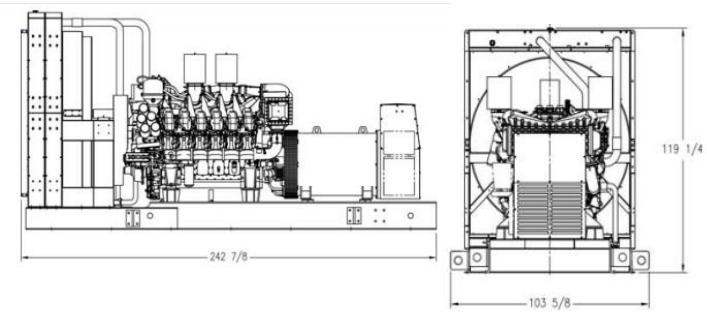
### General data

Compliance with GB755, BS5000, VDE0530, NEMAMG1-22, IED34-1, CSA22.2 and AS1359 standards.

### Alternator Data

| | |
|---|---|
| Brand /Model | Stamford S7L1D-D41 |
| Number of Phase | three |
| Power Factor | 0.8 |
| Winding pitch | 2/3 |
| Excitation system | PMG |
| Number of poles | 4 |
| Protection Grade | IP21 |
| Short-circuit current | 300% (3 in): 10s |
| Insulation Class, Temperature Rise | H/H |
| Frequency | 60HZ |
| Voltage Star (V) | 400V |
| kVA Base Rating (Class H) for Reactance Values (kVA) | 1800KVA |

## Dimension & Weight




Open type(L W H):

Overall Size: 6170×2630×3030mm

Weight: 14500 kgs

## Synchronization control cabinet

Full-automatic synchronization system is designed and produced as professional equipment of generator set synchronization, which is applying for 2 or more generator sets synch with electronic governing

Functions:
Automatic paralleling system: after successful start up, transfer power to coupling cabinets, syn checking signal and acting on the electronic governing, auto-adjusting the frequency and phase to consistent with generating line. Then singling paralleling and act on motorized breaker to switch on and paralleling.
1. Automatic Load distributor
After 2 or above diesel generator sets paralleling and running, automatic prorate for load according to the power.
2. With the load varying during running, according to the load rate to increase/decrease the number of genset. Normally, load rate is lower than 35%, automatically parallel off. And load rate is over 80% to start the engine. Paralleling genset to ensure the genset running economically. This function merely work with the self-exicting device.
3. Protection System
A. Syc. Protection
B. Inverse power protection
C. Over current & short circuit protection (By protector device)
D. Over voltage, under voltage protection ( for optional)
4. Indicating instrument
voltmeter, Ammeter, frequency display, power meter, power factor meter,The synchronization meter( for Paralleling watching)
Three- remote Monitoring system
Adopting exclusive single chip system, achieved the paralleling system between the diesel