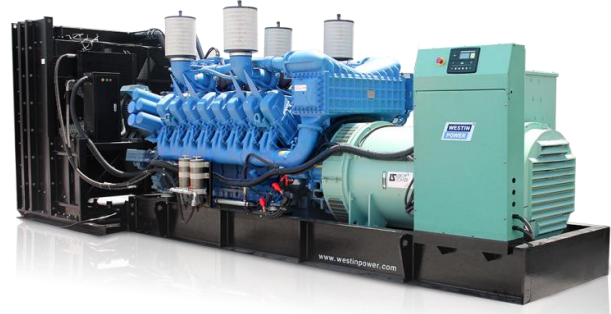




# TX1000T 50Hz POWERED BY MTU SERIES



## TECHNICAL SPECIFICATIONS

### DIESEL GENERATING SET 400/230V-50Hz-3Phase

Model	TX1000T	
Power(ESP)	kVA/kw	1001/801
Power(PRP)	kVA/kw	910/728
Starter Voltage	V	24
Rated Current	A	1445
Rated rotation speed	r/min	1500
Power Factor		0.8
Fuel Consumption	g/kWh	198
Fuel Tank Capacity	Litre	
Noise level	dB(A)@ 1m	≤85

## WEIGHT AND DIMENSIONS

GEN-Set	Dimension ( L*W*H )	Weight
Open Type	4350mm*1650mm*2253mm	7300 kg
Silent Type	6058 mm×2438 mm×2591mm	10478 kg

## STANDARDS:

**Genset:** GB/T2820—2009,ISO8528

**Alternator:** STAMFORD , S6L1D-D41

**Diesel Engine:** MTU , 16V2000G25

**Standby Power:** Continues running at variable load for duration of an emergency. No overload is permitted on these ratings.

**Prime Power:** Continues running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period.

## CONFIGURATION:

**Standard:** Engine, alternator, cooling system, Base frame (excluding fuel tank), shock absorber, air inlet system, control box (including mains floating charge), plastic fan blades (when the engine and water tank do not bring).

**Optional:** Base frame (including fuel tank), water jacket heater, fuel water separator, fuel heater, fuel level sensor (only supporting underframe tank), switch box (with switch), power switch, the water level sensor, motor anti condensation heater, automatic fueling system (only supporting base frame including fuel tank), battery frame.

**Accessories:** Silencer, bellow, exhaust silencing system accessories (with the matching engine), regular battery, starting cord assembly, data of gen-set, random tool (with the matching engine).





# ENGINE Specification

**Manufacturer: MTU**

Model	16V2000G25
Engine speed Rated	1500 RPM
Cylinder /Arrangement	16 / 90°V
Displacement	31.84 L
Bore and Stroke	130 mm×150 mm
Compression ratio	16 : 1
Max. stand by power at rated RPM	891 KW
Frequency regulation , steady state	±0.25 %
Governor : type	Electrical
Aspiration and Cooling	Turbocharged & Air-to-air Cooled

**Exhaust System**

Exhaust gas flow	2.95 m <sup>3</sup> /s
Exhaust temperature	530°C
Max back pressure	85mbar

**Fuel System**

Fuel consumption100% (of the Prime Power)	198g/kWh
Fuel consumption75% (of the Prime Power)	198g/kWh
Fuel consumption50% (of the Prime Power)	203g/kWh
Fuel consumption25% (of the Prime Power)	226g/kWh

**Oil system**

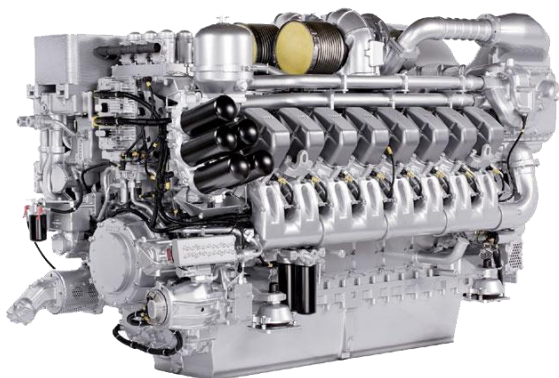
Total oil capacity w/filters	102 L
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**Air intake**

Engine air flow	1.1 m <sup>3</sup> /s
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**Coolant System**

Radiator & engine capacity	110 L
Max water temperature	95 °C
Coolant flow	40m <sup>3</sup> /h



- MTU engines from Germany.
- High pressure common rail, Excellent Engine management Map control System, Excellent Engine Turbocharged and cooling technology, Excellent fuel efficiency and higher emission.
- Only MTU engine can operation under an altitude of 3000m without power Derating.

Note: All data sheets are for reference only and subject to change without prior notice.





# ALTERNATOR Specification

**Manufacturer:** STAMFORD

Type	S6L1D-D41
Number of phase power	3
Factor (Cos Phi)	0.8
Pole	4
Bearing	1
Coupling	Direct
Exciter type	PMG
Insulation : class , temperature rise	H / H
Degree of protection	IP23
AVR model	MX321
Altitude	≤1000m
Winding Pitch	2/3
Winding Leads	6/12

## FEATURES

- Utilising wire-wound\* (random-wound) technology
- Environment alternators are the industry benchmark for all generator set configurations.
- Brushless excitation with AVR
- IP21, IP22, IP23, IP44 enclosure protection.
- The ideal solution for marine/offshore, UPS, telecoms, basic and advanced protection, construction and other continuous or standby power applications.

**STAMFORD**





# Control Panel

**Model:** SGC 420

**SINGLE GENSET CONTROLLERS.**

## DIMENSIONS

### OVERALL

233mm x 173mm x 38.5mm

### PANEL CUTOUT

219mm x 158mm



### KEY FEATURES

- Auto, manual and remote start/stop modes with night restriction option
- 17 inputs, configurable
- 5 resistive
- 2 analogue I/V
- 1 differential
- 9 digital
- 7 digital outputs, configurable
- Modbus over RS-485
- Manually configurable from the controller front buttons or from a PC using DEIF Smart Connect utility software
- Backlit full graphics LCD with power saving feature for extended battery lifetime
- Supports the battery charging alternator I/O interface
- Supports Auto mode (site battery monitoring, AMF, remote start/stop, auto exercise and cyclic) and manual running modes
- Magnetic Pickup Unit (MPU) interface for engine speed measurement
- Auto exercise mode (2 events) to start and stop the genset for a preconfigured time
- Monitors 1-phase/3-phase voltage, frequency, load current and power factor for generator
- Monitors engine safety parameters like lube oil pressure, engine temperature, fuel level and more
- Monitors telecom site battery backup level and shelter temperature to reduce engine running and fuel consumption at telecom tower sites
- Controls start relay, fuel relay, alarm horn and more as digital outputs
- Event log for 100 events with real time clock (RTC) stamps and engine running hours information
- Counters for engine starts, engine trips, engine running hours, genset and Mains kWh, kVAh, kvarh
- Measures mains kW, kVA
- CANbus for engine communication with support for Stage 5/ Tier 4 Final

### KEY FUNCTIONS

- LCD display
- True RMS voltage and current monitoring
- RS-485 base communication
- Monitoring of engine and alternator parameters
- Fully configurable inputs and outputs for a wide range of functions