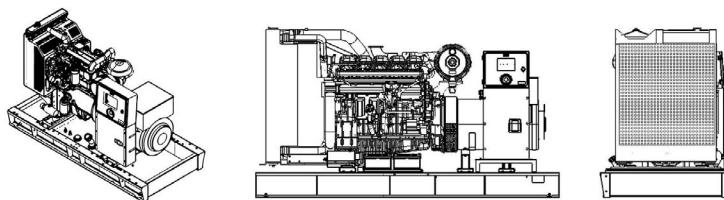




Output Power		
Standby Power (ESP)	kVA	14
	kW	11
Prime Power (PRP)	kVA	13
	kW	10

Size	W x L x H (mm)	Weight (kg)	Fuel Tank (lt)	Noise dB(A) @7m
Canopied	950 x 2200 x 1450	795	90	TBA
Open Skid	950 x 1650 x 1060	521	90	N/A



### Continuous Power

The maximum power which a generating set is capable of delivering continuously whilst supplying a constant electrical load. Average load can be 100%. The generator must not be overloaded.

### Standby Power

The max power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 hrs of operation per year under average of 70% load. Overloading isn't permissible.

### Prime Power

The maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hrs.

Engine		
Manufacturer		BAUDOUIIN
Model		4M06G20/5
Cylinder Configuration		IN LINE
No of Cylinders		4
Displacement	lt	2.3
Bore	mm	89
Stroke	mm	92
Compression Ratio		17.5:1
Aspiration		NATURAL ASPIRATION
Governor Type		ELECTRONIC
Cooling System		WATER
Coolant Capacity	lt	16
Lubrication Oil Capacity	lt	9.5
Electrical System	VDC	12
Speed / Frequency 50 Hz	rpm	1500 rpm / 50 Hz
Engine Gross Power (Standby 50 Hz)	kW	20
Fuel Consumption %110 ESP 50 Hz	lt/h	5.4
Fuel Consumption %100 PRP 50 Hz	lt/h	4.8
Fuel Consumption %75 PRP 50 Hz	lt/h	3.7
Fuel Consumption %50 PRP 50 Hz	lt/h	2.6
Exhaust Outlet Temperature 50 Hz	°C	700
Exhaust Gas Flow 50 Hz	m3/min	4.5
Combustion Air Flow 50 Hz	m3/min	1.38
Cooling Air Flow 50 Hz	m3/min	48

Alternator		
No of Phases		3
Power Factor		0.8
No of Bearings		SINGLE
No of Poles		4
No of Leads		6-12
Insulation Class		H-F
Degree of Protection		IP 21-23
Excitation System		AVR (Automatic Voltage Regulator), Brushless
Connection Type		STAR-TRIANGLE

## Standard Equipment

### Engine

Tx generator set engines have state of the art technology and compliance which meet ISO 8528, ISO 3046, BS 5514, DIN 6271 standards. Tx engines provide low fuel consumption and accurate speed setting with either mechanical or electronic governors.

### Alternator

All alternators pass necessary test standards including EC 60034-1; CEI EN 60034-1; BS 4999-5000; VDE 0530, NF 51-100,111; OVE M-10, NEMA MG 1.22.

### Control Panel

The Tx generator control panel ensures comfortable and safe usage. The control panel features operating modes, alarms and feature displays which monitor the condition of the generator.

### Chassis and Fuel Tank

The Tx generator chassis is manufactured from durable steel. Thanks to its rigid structural design and anti-vibration mounts, the chassis reduces vibration and wear and tear on the generator. All chassis' contain lifting lugs and the fuel tank is Bunded and integrated into the chassis with a fuel level indicator.

### Cooling System

The cooling system consists of a quality industrial-type radiator, expansion tank and cooler fan which keeps the temperature of generator set at a constant level.



## Canopy Features

Tx Standard Canopies' default features are as follows:

- Compatible with 2000/14/EC directives, certified noise emission level.
- 2 or 4 points transport possibility according to cabin size
- Hidden exhaust muffler inside the canopy.
- Emergency stop button located on the canopy.
- Improved air suction channel to ensure homogeneous cooling in the canopy.
- Radiator air outlet and exhaust exiting through the top of the enclosure.
- Lid on canopy that provides access to the radiator cap to allow coolant to be added.
- Amplified paint system against corrosion and rust.
- Improved performance in terms of sound insulation.

As well as the standard range of canopies, Tx can also design tailor made canopies with specific sound level or size upon customer requests.

## Optional Equipment

Some Optional Equipment that Tx provides with Generator Sets:

- Medium voltage alternator,
- Fuel tank, oil pan, dashboard, alternator, coil heaters.
- Alternator with double AVR and PMG.
- Synchronization systems.
- The generator output breaker.
- Grid-generator transfer switches.
- Seismic solutions.
- Trailer.
- Remote monitoring.

### Control Panel Features-DSE-7320

- 4-Line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- Customizable status screens
- Power save mode
- Support for up to three remote display units
- 9 configurable inputs
- 8 configurable outputs
- Flexible sender inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)
- Tier 4 CAN engine support
- Integral PLC editor
- Easy access diagnostic page
- CAN and Magnetic Pick-up/Alt sensing
- Fuel usage monitor and low fuel alarms
- Charge alternator failure alarm
- Manual speed control (on compatible CAN engines)
- Manual fuel pump control
- Engine exerciser
- "Protections disabled" feature
- kW & kV Ar protection
- Reverse power (kW & kV Ar) LED and LCD alarm indication
- Power monitoring (kW h, kV Ar, kV A h, kV Ar h)
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer (DSE7320)
- Unbalanced load protection
- Independent Earth Fault trip
- True dual mutual standby with load balancing timer (DSE7310 only)
- USB connectivity
- Backed up real time clock
- Fully configurable via DSE Configuration Suite PC software
- Configurable display languages
- Remote SCADA monitoring via DSE Configuration Suite PC software
- User selectable RS232 and RS485 communications
- Configurable Gencomm pages
- Advanced SMS messaging (additional external modem required)
- Start & stop capability via SMS messaging
- Additional display screens to help with modem diagnostics
- Idle control for starting & stopping.
- DSENet@ expansion compatible
- Heated display option available



### Communications

- Web monitoring
- GSM-SMS
- e-mail
- USB Device
- RS-232
- J1939-CANBUS

### Topologies

- 2 phase 3 wires, L1-L2
- 2 phase 3 wires, L1-L3
- 3 phase 3 wires
- 3 phase 4 wires, star
- 3 phase 4 wires, delta
- 1 phase 2 wires

- Technical information and values are according to ISO8528, ISO3046, NEMAMG-1.22, IEC 600341, BS 4999-5000, VDE 0530 standards.
- Producing with ISO9001, ISO14001, OHSAS18001, TSE, CE standards.
- All information given in this leaflet is intended for general purposes only.
- Due to a policy continuous improvement Tx reserves the right to amend details and specifications without notice and all information given is subject to the Tx current condition of sales.