

mtu 6R0225 DS400 T3

Technical Specification And Scope of Supply
mtu 6R0225 DS400 T3

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  A Rolls-Royce solution

1. Technical Specification

Product Type	DG06RJ225A2N
	mtu 6R0225 DS400 T3
Application Group	3D - Standby Power

Power per genset (ISO 8528)	400 kWel
Derated Power per genset (ISO 8528)	400 kWel
Engine speed	1800 rpm
Intake air temperature	25 deg C
Altitude	100 m

Requirements

Frequency	60 Hz
Fuel Type	Diesel
Generator voltage	480V
Engine Model	JD6135HFG84 (24volts)
Grid guideline	No requirements

Selection Criteria

Phase	3 Phase
Unit Specification	UL2200 Certification
IBC Certification	Without
HCAI Certification	Without
Exhaust Emissions (EPA)	64 - EPA Stationary EMERG T3 (40CFR60)
Radiator Design Temperature	50 C
Temp Rise	130 °
Full Load Amps	601
Generator Model	433/7520
Generator Wire Qty	12 Wire
Generator Wire Configuration	WYE
OPU/HSD	Level 3 - Maximum Sound Attenuation Enclosure
Control panel	With Control Panel
Circuit Breaker Options	Single Circuit Breaker
Breaker Wire Color Scheme	Standard Breaker Wire Color Scheme
Country of Operation	US -United States of America
Emission cert. Authority	18 - US EPA US EPA Agency

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MODEL:	1			
SERIAL:	2			
RATING:	3			
ENGINE:	4			
RPM:	5	Hz:	6	
kW:	7	kVA:	8	
VOLTS		AMPS	PH	PF
9		10	11	12
WIRE CONFIG: 13				
TEMP. RISE / AMB. (°C): 14 / 40				
MAX. UNBALANCED LOAD: $I_2 = 10\%$				
DIESEL FUEL: PER SPECIFICATIONS A001064/05E				
MAX. INLET FUEL FLOW: 1620 (428) L/h (gal/h)				
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1	mtu 6R0225 DS400 T3	-
2	--	-
3	3D	-
4	JD6135HFG84 (24volts)	-
5	1800	RPM
6	60	Hz
7	400	kWe
8	500	kVA
9	480	V
10	601	A
11	3	PH
12	0.8	PF
13	WYE	-
14	130	°C

2. Scope of Supply

Specification

SYSTEM

System Description

Unit Specification	UL2200 Certification
Enclosure Type	LEVEL 3
Controls	With Control Panel
Circuit Breaker	Single Circuit Breaker
Breaker Wire Color Scheme	Standard Breaker Wire Color Scheme
Dimensional Drawings	<ul style="list-style-type: none">• XZG3000100136• XZG3000100137
Standard Electrical Drawings	<ul style="list-style-type: none">• XZG30K0000045
Electrical Generator Drawings	<ul style="list-style-type: none">• XZG30K0000048
Electrical Option Sheet Drawings	<ul style="list-style-type: none">• XZG30K0000037
Circuit Breaker Drawings	<ul style="list-style-type: none">• XZG30K0000032
Control Panel Drawings	<ul style="list-style-type: none">• XZG3064400019
Customer Connection Drawings	<ul style="list-style-type: none">• XZG30K0000033

ENGINE

Engine Genset

Engine Model	JD6135HFG84 (24volts)
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COOLING

Cooling Package

Radiator Design Temp	50 C
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PREHEATING

Electric Operated Preheating

Coolant Preheating	Coolant Preheater <ul style="list-style-type: none">• -20 Deg F Coolant Preheater (208V 1PH - 4000W)• Model: CL140810-200 Qty 1
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Water Heater Wired to the Distribution Panel (If Distribution Panel is Selected)

STARTING

Starting Electric

Starting Batteries

Starting Battery (Group 31), Cables Battery Rack

- Battery Rack mounted and installed
- Battery Group 31 Starting Battery filled with acid
- Qty 2

Battery Charger

Battery Charger MicroGenius 2 10A

- 300W
- 10 Amp
- 24V
- NFPA 110
- M3-22-1210-E

Battery Charger Mounting

Battery Charger Mounted AC/DC Wired

- This option will be factory-wired to distribution panel (if applicable)

AIR INTAKE

Air Intake Filters

Air Intake

Air Filter (Standard) MTU Air Filter

- XG3012100019 Qty 1

FUEL

Fuel Systems

Fuel Type

Diesel

Fuel Filters

Fuel Water Separator

Fuel Water Separator Standard (Single)

Fuel Tanks

Fuel Tank Type

Without

EXHAUST

Exhaust System

Exhaust Silencer

Unit-Mounted Silencer

- Silencer Model: JIIJ0Z-06SB-1-18060014
- Qty 1
- Silencer Model: TCGEPZ-06SB06PF-1-18060030
- Qty 1

GENERATOR

Generator

Generator Model Number

Base Model: 433/6220

Generator Accessories**PMG**

PMG with DVR 2400

- True RMS Sensing - One or Three Phase Connect. Senses 100 to 600 volts $\pm 10\%$ at 50/60 Hertz. Patented circuitry senses true RMS voltage rather than average for superior load regulation.

Generator Strip Heater

250 Watt Generator Strip Heater

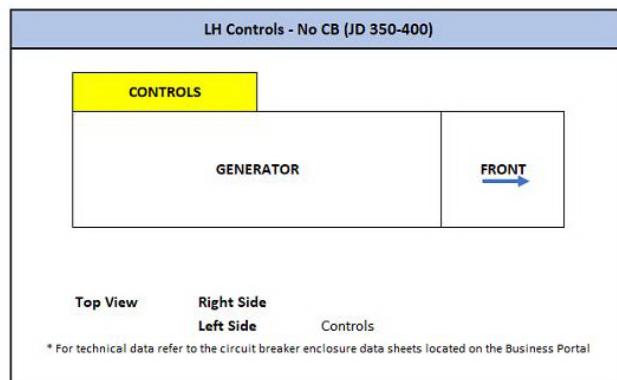
- Strip heater mounted permanently in the generator winding to prevent condensation in the generator. *Note* - This option will be factory-wired to the distribution panel (if selected)

CONTROLS**Genset Control Panel****Configured Control Panel Series**

MGC-2020

- MTU Onsite Energy's Digital Genset Controller MGC-2000 series is a highly advanced integrated generator set control system. The MGC-2000 series is perfectly focused, combining rugged construction and microprocessor technology to offer a product that will hold up to almost any environment and flexible enough to meet your application's needs. This device provides generator set control, transfer switch control, metering, protection, and programmable logic in a simple, easy-to-use, reliable, rugged, and cost effective package.

Control Panel Unit Mounted LH Side

**Paralleling**

Without

CEM Module

Contact Expansion Module (CEM)

- The CEM is a remote device that provides additional MGC contact inputs and outputs giving the user flexibility to use the same model MGC generator set controller for simple or

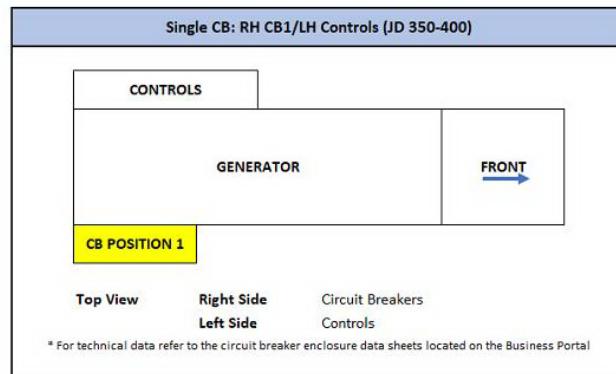
	more complicated applications that require contact functionality or duplication of contacts for remote annunciation.
Modbus	ModBus RTU
	ModBus RTU connects the MGC to Programmable Logic Controllers by means of communication transmission over serial lines (RS485).
Remote E-Stop	Without
BACnet Converter	Without
Ground Fault Protection	Without
Remote Annunciator	<p>RDP-110c Annunciator Panel</p> <ul style="list-style-type: none"> The RDP-110c is a remote annunciation device used in conjunction with the MGC family of digital generator set controllers to provide remote annunciation of the emergency standby generator system. This panel allows for two programmable alarms, two programmable pre-alarms, and is compatible with NFPA 110. The MGC detects an alarm or pre-alarm condition and communicates via RS-485 to the RDP-110c. Unit can be flush or surface mounted.

CIRCUIT BREAKER

Circuit Breaker 1

Circuit Breaker Enclosure Orientation

Single CB Enclosure Orientation: Option 1 (RH MTD)



Trip Type

LSI Breaker Trip

- LSI breakers provide protection from long time overload, short time overload and instantaneous short circuit events. Specific overload current values and time delays vary with breaker type and trip unit.

Rating

100%

Spring Charging Motor (MMM)	Without
ERMS	Without ERMS
Amperage List	700 Amps
Selected Circuit Breaker 1:	700 Amp 3 Pole 100% LSI CB SQ-D PGL36080CU33A
Service Entrance Rated	Service Entrance Rated
Circuit Breaker 1 Accessories	
Shunt Trip (MX1)	Circuit Breaker SQ-D Shunt Trip (MX1)
Distribution Panel	
Distribution Panel	Without
ENCLOSURE	
Housing	
Wind Rating	130 MPH
Enclosure Material	Level 3 Steel Genset Enclosure Weatherproof enclosure constructed of heavy gauge steel with fixed storm proof panels. Enclosure consists of a bolted and welded construction. Hinged, lockable double-door access on both sides of the enclosure. Includes UL 94 HF-1 compliant, 1.5" thick sound attenuated foam insulation installed where applicable.
Roof Foam	Roof Foam Kit
PAINTING	
Painting	
Paint Color	Corporate Grey
BASEFRAME	
Mounts Baseframe	
Selected Vibration Isolation	SUA63015 Pad Isolators • 0.25" thick elastomeric pad in rectangular shape placed under the base frame at each of the pre-drilled isolator mounting holes
WARRANTY	
Warranty	
Warranty Terms	5 year 3000 Hour Comprehensive Warranty

SHIPPING & STORAGE**Freight**

Delivery Type Ship Unit Wet

DOCUMENTATION**Manuals**

Standard Documentation MANUAL ENGLISH USB