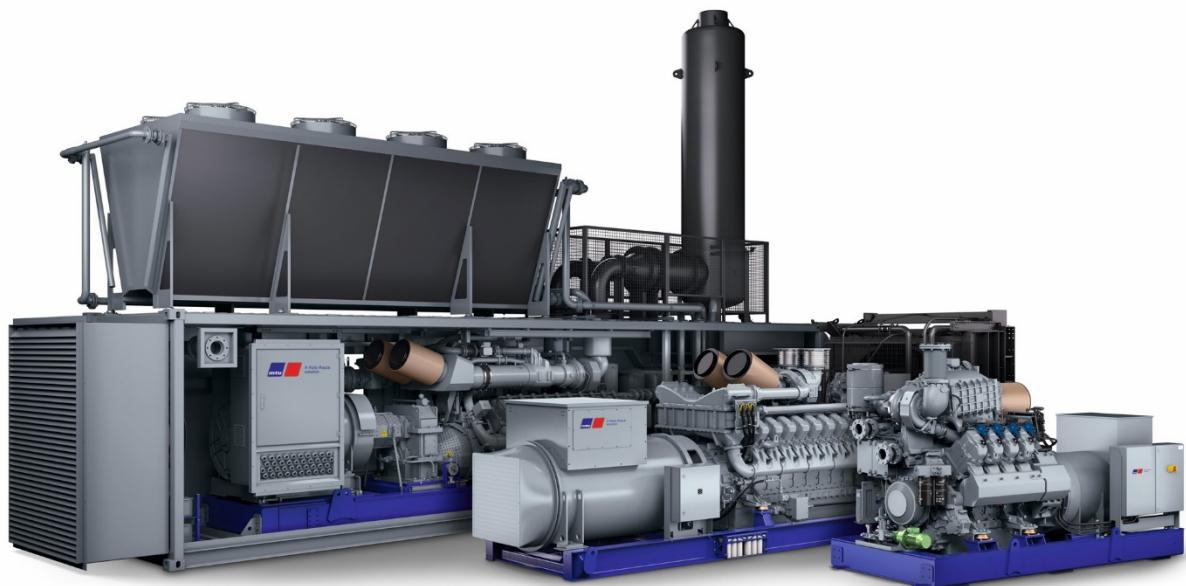




# Stock #: 224065



## mtu 6R0150 DS250 T3

Technical Specification And Scope of Supply

mtu 6R0150 DS250 T3

Customer: INDEL Power Group LLC

Quotation Date: 7. November 2022

[www.mtu-solutions.com](http://www.mtu-solutions.com)



A Rolls-Royce  
solution

## 1. Technical Specification

Product Type	DG06RJ150A2N
	mtu 6R0150 DS250 T3
Application Group	3D

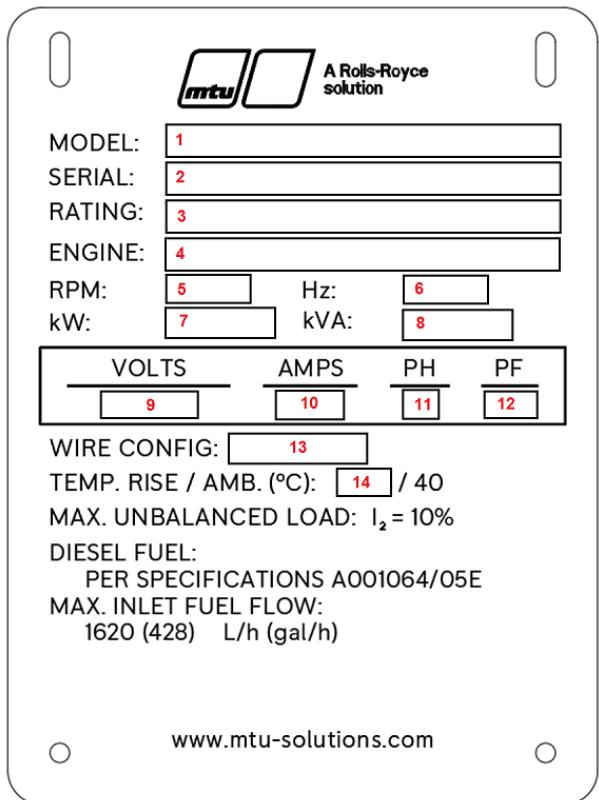
Power per genset (ISO 8528)	250 kWel
Derated Power per genset (ISO 8528)	250 kWel
Engine speed	1800 rpm
Intake air temperature	40 deg C
Altitude	400 m

### *Requirements*

Frequency	60 Hz
Fuel Type	Diesel
Generator voltage	208 V
Engine Model	JD6090HF484 (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	867 A
Generator Model	432/6210
Generator Wire Qty	12 Wire
Generator Wire Configuration	WYE
OPU/HSD	Level 0 - OPU Housing Ready Skid
Control panel	With Control Panel
Circuit Breaker Options	Triple 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



1	mtu 6R0150 DS250 T3	-
2	--	-
3	3D	-
4	JD6090HF484 (24Volts)	-
5	1800	RPM
6	60	Hz
7	250	kWe
8	312	kVA
9	208	V
10	867	A
11	3	PH
12	0.8	PF
13	WYE	-
14	130	°C

## 2. Scope of Supply

### Specification

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#### SYSTEM

##### System Description

Unit Specification	UL2200 Certification
Enclosure Type	Level 0 - OPU Housing-Ready Skid
Controls	With Control Panel
Circuit Breaker	Triple Circuit Breaker
Breaker Wire Color Scheme	Standard Breaker Wire Color Scheme
Dimensional Drawings	<ul style="list-style-type: none"><li>• XZG3000100130</li></ul>
Standard Electrical Drawings	<ul style="list-style-type: none"><li>• XZG30K0000028</li></ul>
Electrical Generator Drawings	<ul style="list-style-type: none"><li>• XZG30K0000048</li></ul>
Electrical Option Sheet	<ul style="list-style-type: none"><li>• XZG30K0000037</li></ul>
Drawings	
Fuel Tank Drawings	<ul style="list-style-type: none"><li>• XZG3000100143</li></ul>
Circuit Breaker Drawings	<ul style="list-style-type: none"><li>• XZG30K0000032</li></ul>
Control Panel Drawings	<ul style="list-style-type: none"><li>• XZG3064400019</li></ul>
Customer Connection Drawings	<ul style="list-style-type: none"><li>• XZG30K0000033</li></ul>
Vibration Isolation Drawings	<ul style="list-style-type: none"><li>• XZG3000100141</li></ul>
ENGINE	
Engine Genset	

**Engine Model** JD6090HF484 (24Volts)

## COOLING

### Cooling Package

**Radiator Design Temp** 50 C

## PREHEATING

### Electric Operated Preheating

#### Coolant Preheating

#### Coolant Preheater

- -20 Deg F Coolant Preheater (208V 1PH - 2500W)
- Model: CB125810-200 Qty 1

\*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  
• P/N: SUA86885 Qty 1

### Air Restriction Indicator

Air Restriction Indicator

## FUEL

### Fuel Systems

#### Fuel Type

Diesel

### Fuel Filters

#### Fuel Water Separator

Fuel Water Separator Standard (Single)

### Fuel Tanks

#### Fuel Tank Type

Extended Fuel Tank

#### Fuel Tank Capacity

24 Hour

#### Selected Fuel Tank

530 Gallon Extended Sub Base Fuel Tank

#### Spill Fill Box

Fuel Tank Spill Fill

#### Overfill Protection

Without

#### Fuel Tank Ventilation

Standard Vents

#### Leak Switch

Standard Leak Switch

#### Tank Level Alarm Panel

Without

## EXHAUST

### Exhaust System

#### Exhaust Silencer

Shipped Loose Critical Grade Silencer 6"  
• Provides 25-34dB of sound attenuation

- Silencer Model: JCS-06-200387 (Qty 1)

## GENERATOR

### Generator

<b>Generator Model Number</b>	Base Model: 432/6210
<b>Generator Accessories</b>	
<b>PMG</b>	<p>PMG with DVR 2400</p> <ul style="list-style-type: none"> <li>• True RMS Sensing - One or Three Phase Connect. Senses 100 to 600 volts <math>\pm 10\%</math> at 50/60 Hertz. Patented circuitry senses true RMS voltage rather than average for superior load regulation.</li> </ul>

### Generator Outletbox

<b>Convenience Receptacle</b>	Unit Includes One (1) Convenience Receptacle
	* This option will be factory-wired to the distribution panel (if selected)

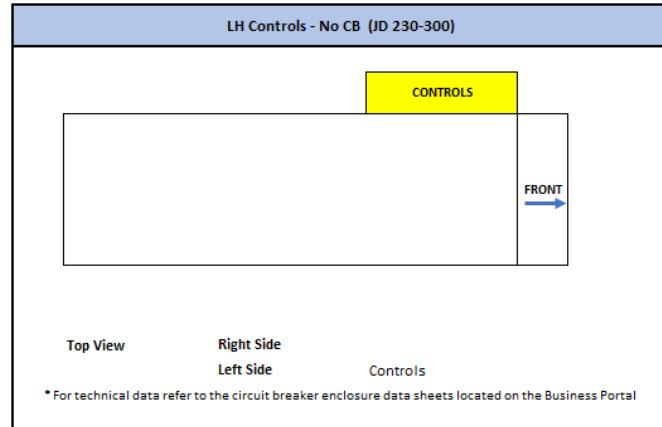
## CONTROLS

### Genset Control Panel

<b>Configured Control Panel Series</b>	<p>MGC-2020</p> <ul style="list-style-type: none"> <li>• 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.</li> </ul>
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## Control Panel Mounting

### 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**

Without

**Protection**

**Remote Annunciator**

RDP-110c Annunciator Panel

- 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.

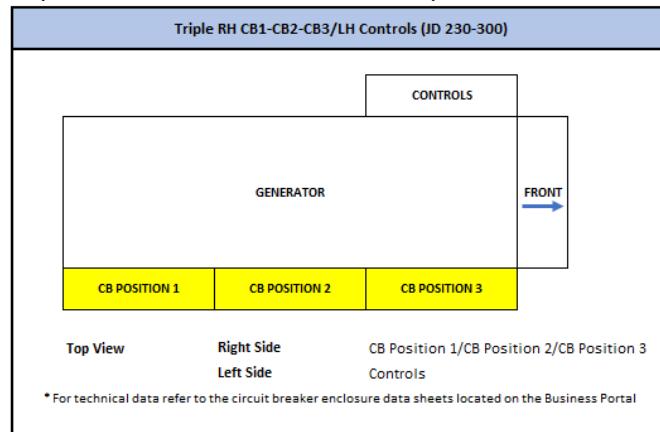
- Unit can be flush or surface mounted.

## CIRCUIT BREAKER

### Circuit Breaker 1

#### Circuit Breaker Enclosure Orientation

#### Triple 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

400 Amps

#### Selected Circuit Breaker 1:

400 Amp 3 Pole 100% LSI CB SQ-D  
LGL36400CU33X

## Circuit Breaker 1 Accessories

<b>Shunt Trip (MX1)</b>	Circuit Breaker SQ-D Shunt Trip (MX1) H/J/LD-Frame
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## Circuit Breaker 2

<b>Rating</b>	100%
<b>Trip Type</b>	<b>LSI Breaker Trip</b> <ul style="list-style-type: none"><li>• 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.</li></ul>
<b>Spring Charging Motor (MMM)</b>	Without
<b>ERMS</b>	Without ERMS
<b>Amperage List</b>	200 Amps
<b>Selected Circuit Breaker 2:</b>	200 Amp 3 Pole 100% LSI CB SQ-D JDL36250CU33X

## Circuit Breaker 2 Accessories

<b>Shunt Trip (MX1)</b>	Circuit Breaker SQ-D Shunt Trip (MX1) H/J/LD-Frame
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## Circuit Breaker 3

<b>Rating</b>	100%
<b>Trip Type</b>	<b>LSI Breaker Trip</b> <ul style="list-style-type: none"><li>• 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.</li></ul>

<b>Spring Charging Motor (MMM)</b>	Without
<b>ERMS</b>	Without ERMS
<b>Amperage List</b>	150 Amps
<b>Selected Circuit Breaker 3:</b>	150 Amp 3 Pole 100% LSI CB SQ-D HDL36150CU33X
<b>Circuit Breaker 3 Accessories</b>	
<b>Shunt Trip (MX1)</b>	Circuit Breaker SQ-D Shunt Trip (MX1) H/J/LD-Frame
<b>Distribution Panel</b>	
<b>Distribution Panel</b>	Without
<b>PAINTING</b>	
<b>Painting</b>	
<b>Paint Color</b>	Corporate Grey
<b>BASEFRAME</b>	
<b>Mounts Baseframe</b>	
<b>Selected Vibration Isolation</b>	<p>Seismic Spring Isolators</p> <ul style="list-style-type: none"> <li>• Freestanding, open-spring isolators designed to be used in docile environments (limited seismic activity, low wind loading) where customer wants enhanced level of vibration isolation.</li> <li>• Spring Model(s): RJC-1430</li> <li>• Notice: Selected springs are rated from the factory for this unit's specific configuration. If modifications are made to this unit outside of the MTU factory the rating of the springs will need to be re-evaluated and may result in additional costs.</li> </ul>

## **WARRANTY**

### **Warranty**

**Warranty Terms** 5 year 3000 Hour Standby Comprehensive Warranty

## **SHIPPING & STORAGE**

### **Freight**

**Shipping Bag** With Shipping Bag

**Delivery Type** Ship Unit Wet

## **DOCUMENTATION**

### **Manuals**

**Standard Documentation** Manual English USB

## **FUNCTIONAL TESTING**

### **Acceptance Testing**

**Standard Commercial Test** With Standard Commercial Test