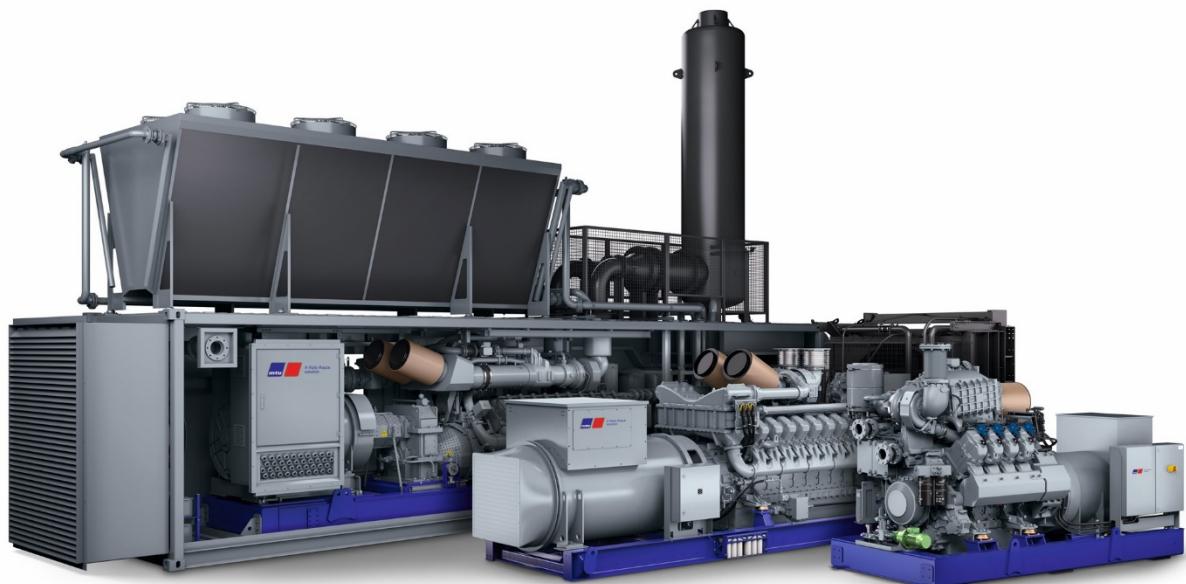




# Stock #: 248100



## mtu 6R0150 DS300 T3

Technical Specification And Scope of Supply

mtu 6R0150 DS300 T3

Customer: INDEL Power Group LLC

Quotation Date: 12. June 2024

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



A Rolls-Royce  
solution

## 1. Technical Specification

Product Type mtu 6R0150 DS300 T3  
Application Group 3D

### *Power as per MTU Sales Program*

Power per genset (ISO 8528)	300 kWel
Derated Power per genset (ISO 8528)	300 kWel
Engine speed	1800 rpm
Intake air temperature	25 deg C
Altitude	100 m

### *Requirements*

Frequency	60 Hz
Fuel Type	Diesel
Generator voltage	480 V
Engine Model	JD6090HFG86 (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	451 A
Generator Model	432/6212
Generator Wire Qty	12 Wire
Generator Wire Configuration	WYE
OPU/HSD	Level 1 - Standard 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 **9** AMPS **10** PH **11** PF **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 6R0150 DS300 T3	-
2	--	-
4	JD6090HFG86 (24Volts)	-
5	1800	RPM
6	60	Hz
7	300	kWe
8	375	kVA
9	480	V
10	451	A
11	3	PH
12	0.8	PF
13	WYE	-
14	130	°C

## 2. Scope of Supply

Specification	QTY	
SYSTEM		
<b>System Description</b>		
Unit Specification	UL2200 Certification	1
Enclosure Type	LEVEL 1	1
Controls	With Control Panel	1
Circuit Breaker	Single Circuit Breaker	1
Breaker Wire Color Scheme	Standard Breaker Wire Color Scheme	1
Dimensional Drawings	• XZG3000100131	1
Engine Electrical Drawings	• XZG30K0000028	1
Electrical Generator Drawings	• XZG30K0000048	1
Electrical Option Sheet Drawings	• XZG30K0000037	1
Fuel Tank Drawings	• XZG3000100143	1
Circuit Breaker Drawings	• XZG30K0000032	1
Control Panel Drawings	• XZG3064400019	1
Customer Connection Drawings	• XZG30K0000033	1
<b>ENGINE</b>		
Engine Genset		
Engine Model	JD6090HFG86 (24Volts)	1

## COOLING

### Cooling Package

Radiator Design

50 C

1

Temp

## PREHEATING

### Electric Operated Preheating

Coolant

Coolant Preheater

1

Preheating

• -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

Starting Battery (Group 31), Cables & Battery

1

Batteries

Rack

• Battery Rack mounted and installed

• Battery Group 31 Starting Battery filled with  
acid (Qty 2)

Battery Charger

Battery Charger MicroGenius 2 10A

1

• 300W

• 10 Amp

• 24V

• NFPA 110

• M3-22-1210-E

Battery Charger  
Mounting

Battery Charger Mounted & AC/DC Wired

1

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

## AIR INTAKE

### Air Intake Filters

Air Intake

Air Filter (Standard) mtu Air Filter

1

• P/N: SUA86885 Qty 1

Air Restriction Indicator	Air Restriction Indicator	1
<b>FUEL</b>		
<b>Fuel Systems</b>		
Fuel Type	Diesel	1
<b>Fuel Filters</b>		
Fuel Water Separator	Without	0
<b>Fuel Tanks</b>		
Fuel Tank Type	Non-Extended Fuel Tank	1
Fuel Tank Capacity	24 Hour	1
Selected Fuel Tank	530 Gallon Non-Extended Sub Base Fuel Tank ** Tank is 9" past end of frame	1
Overfill Protection	Without	0
Fuel Tank Ventilation	Standard Vents	1
Leak Switch	Leak Switch <span class="ui-provider bgu bgv bgn bgw bgx bgy bgz bha bhb bhc bhd bhe bhf bhg bhh bhi bhj bhk bhl bhm bhn bho bhp bhq bhr bhs bht bhu bhw bhw bhz bhy bia bib" dir="ltr">Florida DEP EQ Certification: </span><a href="http://publicfiles.dep.state.fl.us/DWM/BPS/STR/EQ-List/EQ-832.pdf" target="_blank" rel="noopener">EQ-832</a>	1
Tank Level Alarm Panel	Without	0
<b>EXHAUST</b>		
<b>Exhaust System</b>		
Exhaust Silencer	Unit-Mounted Silencer • Silencer Model: JIIJ0Z-06SB-1-18060014 (Qty 1)	1

## GENERATOR

### Generator

<b>Generator Model Number</b>	Base Model: 432/6212	1
<b>Generator Accessories</b>		
<b>PMG</b>	PMG with DVR 2400 <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>	1
<b>Generator Strip Heater</b>	250 Watt Generator Strip Heater <ul style="list-style-type: none"><li>• Strip heater mounted permanently in the generator winding to prevent condensation in the generator.</li><li>*Note* - This option will be factory-wired to the distribution panel (if selected)</li></ul>	1

## CONTROLS

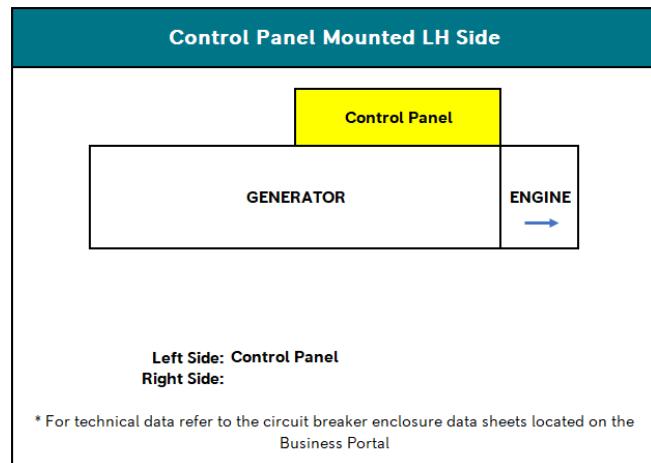
### Genset Control Panel

<b>Configured Control Panel Series</b>	MGC-2020 <ul style="list-style-type: none"><li>• Rolls Royce Power Systems Digital Generator 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>	1
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**Control Panel  
Mounting**

**Control Panel Unit Mounted LH Side**

1



**Paralleling**

Without

0

**4-Relay Package**

4-Relay Option

1

- The 4-relay board includes (4) 10 Amp form C relays customizable for user defined functionality requirements.
- Standard outputs are as follows:
  - Engine Run
  - Engine Fail
  - Minor Alarm

**Remote E-Stop**

Remote E-Stop

1

**ProtoNode**

Without

0

**Solution**

Without

0

**Ground Fault**

Without

0

**Protection**

RDP-110c Annunciator Panel

1

- 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.

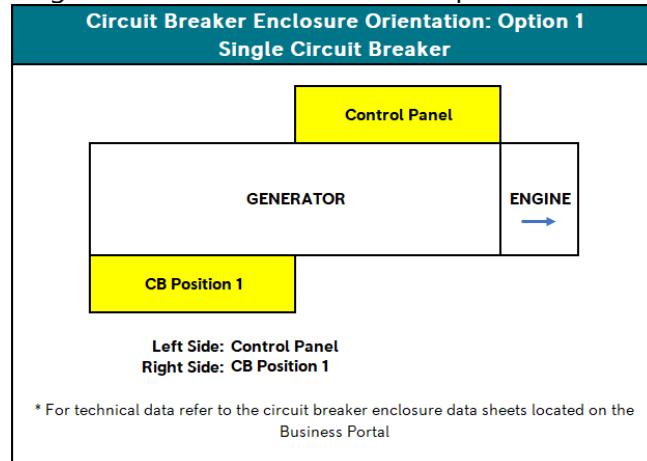
**CIRCUIT BREAKER**

## Circuit Breaker Position 1

### Circuit Breaker Enclosure Orientation

Single CB Enclosure Orientation: Option 1

1



### Trip Type

LSI Breaker Trip

0

- 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%

0

### Spring Charging Motor (MMM) ERMS

Without

0

Without ERMS

1

### Amperage List

500 Amps

1

### Selected Circuit Breaker 1:

500 Amp 3 Pole 100% LSI CB SQ-D  
PGL36060CU33A

1

## Circuit Breaker Position 1 Accessories

### Shunt Trip (MX1)

Circuit Breaker SQ-D Shunt Trip (MX1) H/J/LD-Frame

1

## Distribution Panel

### Distribution Panel

Without

0

### ENCLOSURE

## Housing

Wind Rating	130 MPH	1
Enclosure Material	Level 1 Steel <ul style="list-style-type: none"><li>• Weather proof enclosure constructed of heavy gauge steel with fixed storm proof panels.</li><li>• Enclosure consists of a bolted and welded construction.</li><li>• Hinged, lockable double-door access on both sides of the enclosure.</li></ul>	1

## PAINTING

### Painting

Paint Color	Corporate Grey	1
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## BASEFRAME

### Mounts Baseframe

Selected Vibration Isolation	Pad Isolators <ul style="list-style-type: none"><li>• 1/4" thick elastomeric pad in rectangular shape placed under the base frame at each of the pre-drilled isolator mounting holes</li><li>• P/N: SUA63015</li></ul>	1
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## WARRANTY

### Warranty

Warranty Terms	2 Year 3000 Hour Standby Warranty	1
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## SHIPPING & STORAGE

### Freight

Delivery Type	Ship Unit Wet	1
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## DOCUMENTATION

### Manuals

Standard Documentation	Manual English USB	1
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## FUNCTIONAL TESTING

### Acceptance Testing

<b>Standard Commercial Test</b>	With Standard Commercial Test	1
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