



# mtu 6R0225 DS350 T3

Technical Specification And Scope of Supply

mtu 6R0225 DS350 T3

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## 1. Technical Specification

Product Type	mtu 6R0225 DS350 T3
Application Group	3D

### ***Power as per MTU Sales Program***


Power per genset (ISO 8528)	350 kWel
Derated Power per genset (ISO 8528)	350 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	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	526 A
Generator Model	433/6216
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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solution

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<sub>2</sub> = 10%  
DIESEL FUEL:  
PER SPECIFICATIONS A001064/05E  
MAX. INLET FUEL FLOW:  
1620 (428) L/h (gal/h)

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1	mtu 6R0225 DS350 T3	-
2	--	-
4	JD6135HFG84 (24volts)	-
5	1800	RPM
6	60	Hz
7	350	kWe
8	438	kVA
9	480	V
10	526	A
11	3	PH
12	0.8	PF
13	WYE	-
14	130	°C

## 2. Scope of Supply

Specification	QTY
SYSTEM	

### System Description

Unit Specification	UL2200 Certification	1
Enclosure Type	LEVEL 3	1
Controls	With Control Panel	1
Circuit Breaker	Single Circuit Breaker	1
Breaker Wire Color Scheme	Standard Breaker Wire Color Scheme	1
Dimensional Drawings	<ul style="list-style-type: none"><li>• XZG3000100136</li><li>• XZG3000100137</li></ul>	1
Engine Electrical Drawings	<ul style="list-style-type: none"><li>• XZG30K0000045</li></ul>	1
Electrical Generator Drawings	<ul style="list-style-type: none"><li>• XZG30K0000048</li></ul>	1
Electrical Option Sheet	<ul style="list-style-type: none"><li>• XZG30K0000037</li></ul>	1
Drawings		
Fuel Tank Drawings	<ul style="list-style-type: none"><li>• XZG3000100138</li></ul>	1
Circuit Breaker Drawings	<ul style="list-style-type: none"><li>• XZG30K0000032</li></ul>	1
Control Panel Drawings	<ul style="list-style-type: none"><li>• XZG3064400019</li></ul>	1
Customer Connection Drawings	<ul style="list-style-type: none"><li>• XZG30K0000033</li></ul>	1

### ENGINE

#### Engine Genset

Engine Model	JD6135HFG84 (24volts)	1
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### COOLING

#### Cooling Package

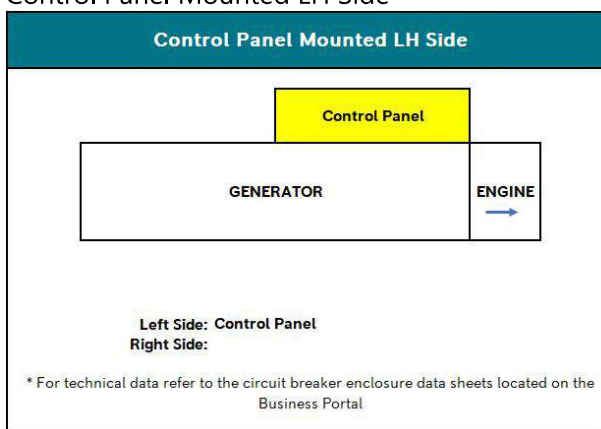
Radiator Design Temp	50 C	1
<b>PREHEATING</b>		
<b>Electric Operated Preheating</b>		
Coolant Preheating	Coolant Preheater <ul style="list-style-type: none"> <li>• -20 Deg F Coolant Preheater (240V 1PH - 4000W)</li> <li>• Model: CL140210-200 Qty 1 *Water Heater Wired to the Distribution Panel (If Distribution Panel is Selected)</li> </ul>	1
<b>STARTING</b>		
<b>Starting Electric</b>		
Starting Batteries	Starting Battery (Group 31), Cables & Battery Rack <ul style="list-style-type: none"> <li>• Battery Rack mounted and installed</li> <li>• Battery Group 31 Starting Battery filled with acid (Qty 2)</li> </ul>	1
Battery Charger	Battery Charger MicroGenius 2 10A <ul style="list-style-type: none"> <li>• 300W</li> <li>• 10 Amp</li> <li>• 24V</li> <li>• NFPA 110</li> <li>• M3-22-1210-E</li> </ul>	1
Battery Charger Mounting	Battery Charger Mounted & AC/DC Wired <ul style="list-style-type: none"> <li>• This option will be factory-wired to distribution panel (if applicable)</li> </ul>	1
<b>AIR INTAKE</b>		
<b>Air Intake Filters</b>		
Air Intake	Air Filter (Standard) mtu Air Filter <ul style="list-style-type: none"> <li>• P/N: XG3012100019 Qty 1</li> </ul>	1
<b>FUEL</b>		
<b>Fuel Systems</b>		

Fuel Type	Diesel	1
Fuel Filters		
Fuel Water Separator	Without	0
Fuel Tanks		
Fuel Tank Type	Extended Fuel Tank	1
Fuel Tank Capacity	48 Hour	1
Selected Fuel Tank	1400 Gallon Extended Sub Base Fuel Tank	1
Spill Fill Box	Fuel Tank Spill Fill: EQ-565	1
Overfill Protection	Without	0
Fuel Tank Ventilation	Standard Vents	1
Leak Switch	Leak Switch Florida DEP EQ Certification: EQ-832	1
Tank Level Alarm Panel	Without	0
<b>EXHAUST</b>		
Exhaust System		
Exhaust Silencer	Unit-Mounted Silencer • Silencer Model: JIIJ0Z-06SB-1-18060014 (Qty 1) • Silencer Model: TCGEPZ-06SB06PF-1-18060030 (Qty 1)	1
<b>GENERATOR</b>		
Generator		
Generator Model Number	Base Model: 433/6216	1
Generator Accessories		

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

## CONTROLS

<b>Genset Control Panel</b>		
<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
<b>Control Panel Mounting</b>	Control Panel Mounted LH Side	1



<b>Paralleling</b>	Without	0
<b>CEM Module</b>	Contact Expansion Module (CEM) <ul style="list-style-type: none"> <li>• 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.</li> </ul>	1
<b>Remote E-Stop</b>	Without	0
<b>ProtoNode Solution</b>	Without	0
<b>Ground Fault Protection</b>	Without	0
<b>Remote Annunciator</b>	RDP-110c Annunciator Panel <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• Unit can be flush or surface mounted.</li> </ul>	1

## CIRCUIT BREAKER

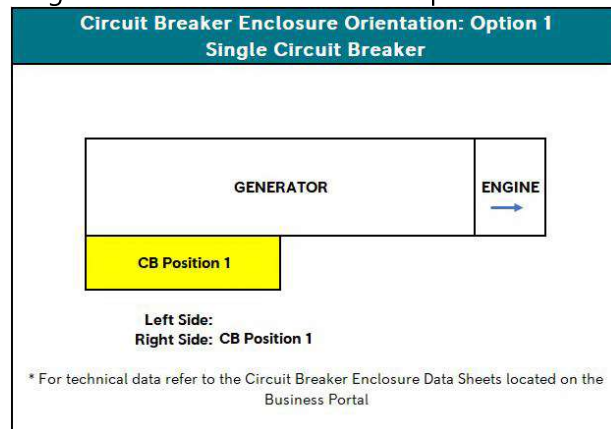
### Circuit Breaker Position 1



**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)**

Without

0

**ERMS**

Without ERMS

1

**Amperage List**

600 Amps

1

**Selected Circuit Breaker 1:**

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

1

**Service Entrance Rated**

Service Entrance Rated

1

**Distribution Panel**

**Distribution Panel**

Without

0

**ENCLOSURE**

**Housing**

**Wind Rating**

130 MPH

1

<b>Enclosure Material</b>	Level 3 Steel	1
	<ul style="list-style-type: none"> <li>• Weatherproof 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. Includes UL 94 HF-1 compliant, 1.5" thick sound attenuated foam insulation installed where applicable.</li> </ul>	
<b>Roof Foam</b>	Roof Foam Kit	1
<b>PAINTING</b>		
<b>Painting</b>		
<b>Paint Color</b>	Corporate Grey	1
<b>BASEFRAME</b>		
<b>Mounts Baseframe</b>		
<b>Selected Vibration Isolation</b>	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
<b>WARRANTY</b>		
<b>Warranty</b>		
<b>Warranty Terms</b>	2 Year 3000 Hour Standby Warranty	1
<b>SHIPPING &amp; STORAGE</b>		
<b>Freight</b>		
<b>Delivery Type</b>	Ship Unit Wet	1
<b>DOCUMENTATION</b>		
<b>Manuals</b>		
<b>Standard Documentation</b>	Manual English USB	1

**FUNCTIONAL TESTING**

**Acceptance Testing**

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