



Stock #: 234465



mtu 6R0150 DS230 T3

Technical Specification And Scope of Supply
mtu 6R0150 DS230 T3

Customer: INDEL Power Group LLC

Quotation Date: 13. March 2022

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1. Technical Specification

Product Type	DG06RJ150A1N mtu 6R0150 DS230 T3
Application Group	3D - Standby Power


Power per genset (ISO 8528)	230 kWel
Derated Power per genset (ISO 8528)	230 kWel
Engine speed	1800 rpm
Intake air temperature	25 deg C
Altitude	100 m

Requirements

Frequency	60 Hz
Fuel Type	Diesel
Generator voltage	208V
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	798
Generator Model	432/6210
Generator Wire Qty	12 Wire
Generator Wire Configuration	WYE
OPU/HSD	Level 2 - Basic 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	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 6R0150 DS230 T3	-
2	--	-
3	3D	-
4	JD6090HF484 (24Volts)	-
5	1800	RPM
6	60	Hz
7	230	kWe
8	288	kVA
9	208	V
10	798	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 2
Controls	With Control Panel
Circuit Breaker	Single Circuit Breaker
Breaker Wire Color Scheme	Standard Breaker Wire Color Scheme
Dimensional Drawings	• XZG3000100131
Standard Electrical Drawings	• XZG30K0000028
Electrical Generator Drawings	• XZG30K0000048
Electrical Option Sheet Drawings	• XZG30K0000037
Circuit Breaker Drawings	• XZG30K0000032
Distribution Panel Drawings	• XZG30K0000034
Control Panel Drawings	• XZG3064400019
Customer Connection Drawings	• XZG30K0000033

ENGINE

Engine Genset

Engine Model	JD6090HF484 (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
	• -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
- SUA86885 Qty 1

FUEL

Fuel Systems

Fuel Type

Diesel

Fuel Filters

Fuel Water Separator

Without

Fuel Tanks

Fuel Tank Type

Without

Overfill Protection

Without

Tank Level Alarm Panel

Without

EXHAUST

Exhaust System

Exhaust Silencer

Hospital Grade Silencer 6"

- Silencer Model Number:
JIIJOZ-06SB-1-18060014

GENERATOR

Generator

Generator Model Number

Generator Model Number: 432/6210

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 Outletbox

Convenience Receptacle

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

CONTROLS

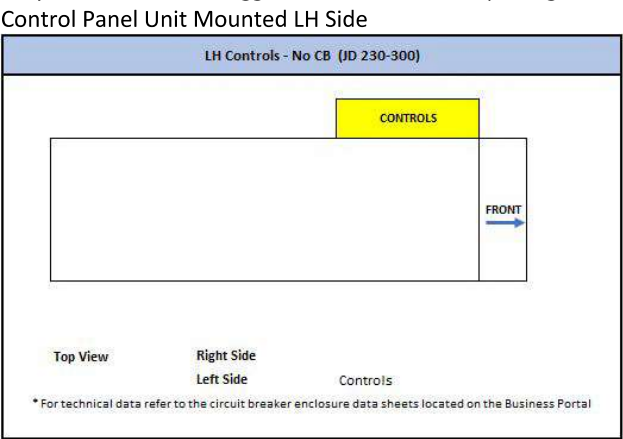
Genset Control Panel

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 Mounting



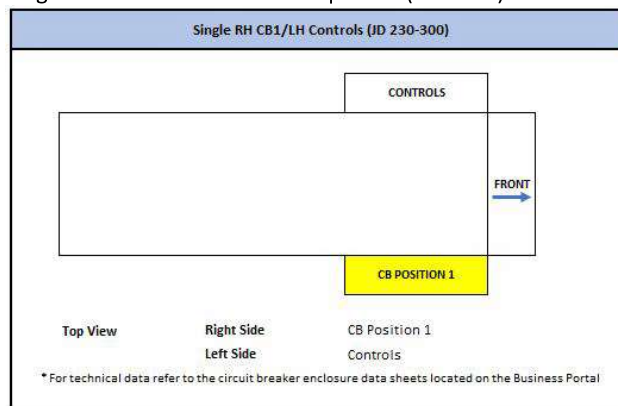
Paralleling	Without
CEM Module	<p>Contact Expansion Module (CEM)</p> <ul style="list-style-type: none"> The CEM is a remote device that provides additional MGC contact inputs and outputs giving the user flexibility to use the same model MGC generator set controller for simple or more complicated applications that require contact functionality or duplication of contacts for remote annunciation.
Modbus	<p>ModBus RTU</p> <p>ModBus RTU connects the MGC to Programmable Logic Controllers by means of communication transmission over serial lines (RS485).</p>
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

Rating	<ul style="list-style-type: none"> • 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. 100%
Spring Charging Motor (MMM)	Without
ERMS	Without ERMS
Amperage List	800 Amps
Selected Circuit Breaker 1:	800 Amp 3 Pole 100% LSI CB SQ-D PGL36080CU33A
Circuit Breaker 1 Accessories	
Auxiliary Switch (OF)	Circuit Breaker SQ-D Auxillary Switch (OF)
Distribution Panel	
Distribution Panel	Distribution Panel <ul style="list-style-type: none"> • 125A 12/240VAC 1PH • UL Listed • 12 Position
ENCLOSURE	
Housing	
Wind Rating	130 MPH
Enclosure Material	Level 2 Steel Genset Enclosure Weather proof 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.
Enclosure Lighting	Interior Enclosure Lighting <ul style="list-style-type: none"> • Interior enclosure lighting is designed to automatically use either AC or DC power. The lights will use the DC supply (genset batteries) if no AC supply is available. The lights may be powered via AC supply if connected by the customer. *Note* - This option will be factory-wired to the distribution panel (if selected)
Roof Foam	With Roof Foam
Enclosure Heater	Enclosure Heater: 120V 1500W 1PH with Thermostat *Note* - This option will be factory-wired to the distribution panel (if selected)

Motorized Intake Louver	Motorized Intake Louver *This option will be factory-wired to the distribution panel (if selected) * Selection of this option may result in a cooling package derate.
Gravity Exhaust Louver	Gravity Exhaust Louver * Selection of this option may result in a cooling package derate.
PAINTING	
Painting	
Paint Color	Corporate Grey
BASEFRAME	
Mounts Baseframe	
Selected Vibration Isolation	SUA63015 Pad Isolators <ul style="list-style-type: none"> • 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	2 Year 3000 Hour Basic Warranty
SHIPPING & STORAGE	
Freight	
Delivery Type	Ship Unit Wet
DOCUMENTATION	
Manuals	
Standard Documentation	MANUAL ENGLISH USB