

mtu 4R0063 GS40

Technical Specification And Scope of Supply

mtu 4R0063 GS40

Customer: Central Power Systems & Services,-Inc.

Technical Specification Number: Q0000021983-1

MTU Order:

Quotation Date: 9. May 2024

www.mtu-solutions.com



1. Technical Specification

Product Type mtu 4R0063 GS40
Application Group 3D

Power as per MTU Sales Program


Power per genset (ISO 8528) 40 kWel
Natural Gas Power Rating 40 kWel
Liquid Propane Power Rating 0 kWel
Engine speed 1800 rpm
Intake air temperature 25 deg C
Altitude 100 m

Requirements

Frequency 60 Hz
Fuel Type Natural Gas
Generator voltage 208 V
Engine Model mtu SI 2.5LT (12Volts)
Grid guideline No requirements

Selection Criteria

Phase 3 Phase
Unit Specification UL2200 Certification
IBC Certification Without
HCAI Certification Without
Exhaust Emissions (EPA) A5 - EPA Stationary EMERG (40CFR60) SI
Radiator Design Temperature 50 C
Temp Rise 130 °
Full Load Amps 139 A
Generator Model 285/1700
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

 **A Rolls-Royce solution**

MODEL:

SERIAL:

RATING:

ENGINE:

RPM: Hz:

kW: kVA:

VOLTS	AMPS	PH	PF
<input type="text" value="9"/>	<input type="text" value="10"/>	<input type="text" value="11"/>	<input type="text" value="12"/>

WIRE CONFIG:

TEMP. RISE / AMB. (°C): / 40

MAX. UNBALANCED LOAD: I₂ = 10%

15 FUEL TYPE	INLET PRESSURE (in H ₂ O)	MAX. INPUT (Btu/H)	MAX. INLET FLOW
<input type="checkbox"/> NATURAL GAS	7-11		
<input type="checkbox"/> LP GAS	7-11		
<input type="checkbox"/> LP LIQUID	7-11		

Mfg. Date:

www.mtu-solutions.com

1	mtu 4R0063 GS40	-
2	--	-
4	mtu SI 2.5LT (12Volts)	-
5	1800	RPM
6	60	Hz
7	40	kWe
8	50	kVA
9	208	V
10	173	A
11	3	PH
12	0.8	PF
13	WYE	-
14	130	°C
15	Natural Gas	-

Customer:	Central Power Systems & Services,-Inc.	BCI 40
Quotation Number:	Q0000021983 - 0 - 1	9. May 2024
Contact:	GenericOlgaMK	3

2. Scope of Supply

Specification

QTY

SYSTEM

System Description

Unit Specification Enclosure Type	UL2200 Certification	1
Controls	LEVEL 3	1
Circuit Breaker	With Control Panel	1
Breaker Wire Color Scheme	Single Circuit Breaker	1
Dimensional Drawings	Standard Breaker Wire Color Scheme	1
Fuel System Drawings	• XZG3100100085 • XZG3100100086	1
Engine Electrical Drawings	Fuel System Single NG or LP Vapor (Not Base Connected)	1
Control Panel Drawings	• XSG31080.00009 mtu SI 2.5L	1
Circuit Breaker Drawings	• XZG3164400003	1
Option Sheet Drawings	• XZG31K0000011	1
	• XZG3164400011	1
	• XZG3164400001	1
	• XZG3164400008	1

ENGINE

Engine Genset

Engine Model	mtu SI 2.5LT (12Volts)	1
--------------	------------------------	---

COOLING

Cooling Package

Radiator Design Temp	50 C	1
----------------------	------	---

Customer:	Central Power Systems & Services,-Inc.	BCI 40
Quotation Number:	Q0000021983 - 0 - 1	9. May 2024
Contact:	GenericOlgaMK	4

PREHEATING

Electric Operated Preheating

Coolant Preheating	Coolant Preheater • -20 Deg F Coolant Preheater (120V 1PH - 1800W) • Model: TPS181GT10-000 Qty 1 *Water Heater Wired to the Distribution Panel (If Distribution Panel is Selected)	1
--------------------	---	---

STARTING

Starting Electric

Starting Batteries	Starting Battery w/Acid, Cables & Battery Rack • Battery Rack mounted and installed • Battery Group 24 Starting Battery filled with acid (Qty 1)	1
Battery Charger	Battery Charger: MTU OE 12-6A	1
Battery Charger Mounting	Battery Charger Mounted & AC/DC Wired • This option will be factory-wired to distribution panel (if applicable)	1

AIR INTAKE

Air Intake Filters

Air Intake System	Air Filter (Standard) mtu Air Filter • P/N: SUA77166 Qty 1	1
Air Restriction Indicator	Air Restriction Indicator	1

FUEL

Fuel Systems

Fuel System	Single Fuel NG/LP Vapor	1
Fuel Type	Natural Gas	0

EXHAUST

Customer:	Central Power Systems & Services,-Inc.	BCI 40
Quotation Number:	Q0000021983 - 0 - 1	9. May 2024
Contact:	GenericOlgaMK	5

Exhaust System

Exhaust Silencer	Unit-Mounted Silencer • Silencer Model: JCS-02-200381 (Qty 1)	1
------------------	--	---

GENERATOR

Generator

Generator Model Number	Base Model: 285/1700	1
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.	1
-----	---	---

Generator Strip Heater	150 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)	1
------------------------	--	---

Generator Outletbox

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

CONTROLS

Genset Control Panel

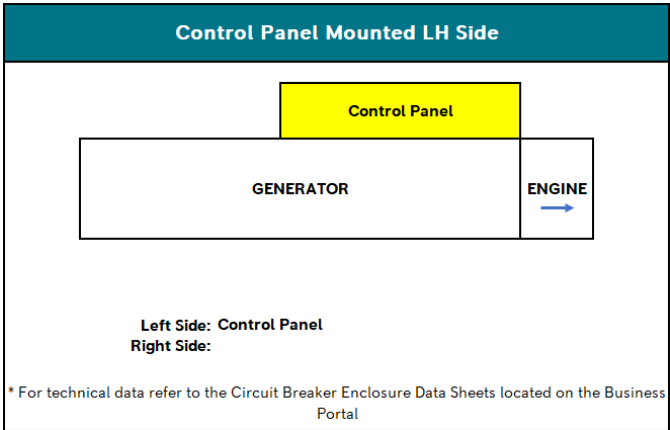
Configured Control Panel Series	MGC-1520 • Rolls Royce Power Systems Generator Set Controllers are rugged, reliable, and easy-to-use digital generator set control systems. The MGC-1500 Series is perfectly focused, combining rugged construction and microprocessor technology to offer a product that will hold up to almost any environment and is flexible enough to meet your application's needs.	1
---------------------------------	--	---

Customer:	Central Power Systems & Services,-Inc.	BCI 40
Quotation Number:	Q0000021983 - 0 - 1	9. May 2024
Contact:	GenericOlgaMK	6

Control Panel Mounting

Control Panel Mounted LH Side

1



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 Solution

Without

0

Ground Fault Protection

Without

0

Remote Annunciator

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.

Extension Harness

Without

0

CIRCUIT BREAKER

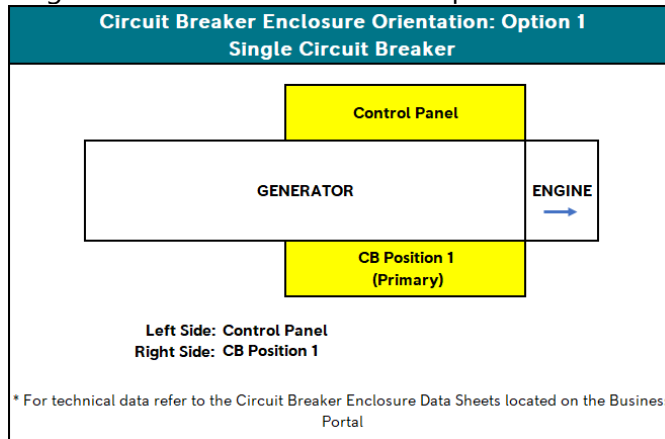
Customer:	Central Power Systems & Services,-Inc.	BCI 40
Quotation Number:	Q0000021983 - 0 - 1	9. May 2024
Contact:	GenericOlgaMK	7

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

Amperage List

150 Amps

1

Selected Circuit Breaker

150 Amp 3 Pole 100% LSI CB SQ-D HDL36150CU33X

1

1:

Circuit Breaker Position 1

Accessories

Shunt Trip

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

1

Distribution Panel

Distribution Panel

Without

0

ENCLOSURE

Housing

Customer:	Central Power Systems & Services,-Inc.	BCI 40
Quotation Number:	Q0000021983 - 0 - 1	9. May 2024
Contact:	GenericOlgaMK	8

Enclosure Material	Level 3 Steel • Level 2 Steel enclosure with air exhaust scoop with UL 94 HF-1 compliant, 1.5" thick sound attenuated foam insulation installed where applicable.	1
Sound Attenuation Kit	With	1
PAINTING		
Painting		
Paint Color	Corporate Grey	1
BASEFRAME		
Mounts Baseframe		
Vibration Isolation	Pad Isolators • 1/4" thick elastomeric pad in rectangular shape placed under the base frame at each of the pre-drilled isolator mounting holes • P/N: SUA63015	1
WARRANTY		
Warranty		
Warranty Terms	2 Year 3000 Hour Standby Warranty	1
SHIPPING & STORAGE		
Freight		
Shipping Bag	With Shipping Bag	1
Delivery Type	Ship Unit Wet	1
DOCUMENTATION		
Manuals		
Standard Documentation	Manual English USB	1

Customer:	Central Power Systems & Services,-Inc.	BCI 40
Quotation Number:	Q0000021983 - 0 - 1	9. May 2024
Contact:	GenericOlgaMK	9

FUNCTIONAL TESTING

Acceptance Testing

Standard Commercial Test	With Standard Commercial Test	1
Certified Test Report	Tests to be reviewed and signed off by test engineer	1

Customer:	Central Power Systems & Services,-Inc.	BCI 40
Quotation Number:	Q0000021983 - 0 - 1	9. May 2024
Contact:	GenericOlgaMK	10