



400kW

Technical Specification

and

Scope of Supply

mtu 6R0225 DS400
DG06RJ225A2N

MTU Project: 317260512
Quotation: SMI 260522-Q01-1

09.03.2022



I. System Description

Product type DG06RJ225A2N
mtu 6R0225 DS400
Application Group 3D - Emergency Standby power, IFN

Power as per MTU Sales Program

Power per genset (ISO 8528)	400	kWel
Engine speed	1.800	rpm
Intake air temperature	25	°C
Coolant temperature	0	°C
Altitude	100	m

On-site Power

Power per genset (ISO 8528)	400	kWel
Engine speed	1.800	rpm
Intake air temperature	25	°C
Coolant temperature	0	°C
Altitude	100	m

Requirements

Frequency	60 Hz
Generator voltage	480 V
EngineType	JD6135HFG84

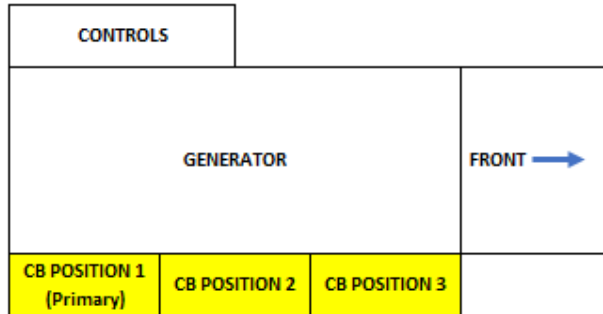


II. Selection Criteria for the Scope of Supply

<i>Criteria</i>	<i>Selection</i>	<i>for Product No.</i>
Application	Emergency Standby (3D)	1,
Frequency	60 Hz	1,
Generator Voltage	480 V	1,
Phase	3 Phase	1,
Unit Specification	UL2200	1,
IBC Seismic Certification	Without IBC	1,
OSHPD Certification	Without OSHPD	1,
Engine Model	JD6135HFG84 (24volts)	1,
Exhaust Emissions (EPA)	EPA Stationary EMERG T3 (40CFR60)	1,
Radiator Design Temperature	50°C	1,
Temp Rise	130°	1,
Power Output	400 kW	1,
Full Load Amps	601	1,
Generator Frame and Wire Qty	433/6220 (12 Wire)	1,
Generator Wire Configuration	Wye	1,
OPU/HSD	Level 3 - Maximum Sound Attenuation	1,
Fuel Tank	With Fuel Tank	1,
Control panel	With MGC Controller	1,
Circuit Breaker Options	Single Circuit Breaker	1,
Breaker Wire Color Scheme	Standard Breaker Wire Color Scheme	1,
Paralleling	No Parallel Operation	1,
Acceptance testing	Factory acceptance	1,
Publications	Standard Publications (English)	1,
Country of Operation	USA / Canada	1,
Emission cert. authority	18 US EPA Agency	1,

III. Scope of Supply

		valid for product no.
1	SYSTEM CONFIGURATION	1,
1.1	System Description	1,
	System Description: DG06RJ225A2N	1,
1.2	Cooling Package	1,
	50 Deg C Cooling System	1,
	<ul style="list-style-type: none"> Closed loop, liquid cooled, with radiator factory mounted on engine-generator set mounting frame and integral engine-driven coolant pump 	
1.3	Circuit Breaker	1,
	Circuit Breaker Mounted Right Side	1,
		1,



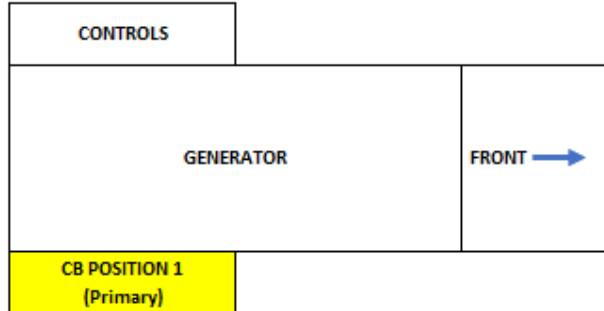
Top View **Right Side** CB Position 1/CB Position 2/CB Position 3
left Side Controls

* For technical data refer to the circuit breaker enclosure data sheets located on the Business Portal

Non-Service Entrance Rated	1,
Circuit Breaker Mounted Right Side	1,



valid for
product no.
1,



Top View **Right Side** **CB Position 1**
left Side **Controls**

* For technical data refer to the circuit breaker enclosure data sheets located on the Business Portal

Circuit Breaker Position 1:	1,
Circuit Breaker Position 1:	1,
600 Amp 600 Volt 3 Pole 100% LSI CB SQ-D PGL36060CU33A	1,
Circuit Breaker #1 Accessories:	1,
Circuit Breaker Position 1:	1,
LSI Breaker Trip:	1,
<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. 	
Standard Breaker Wire Scheme:	1,
<ul style="list-style-type: none"> • Phase 1 (A) is Black label "L1" • Phase 2 (B) is Red label "L2" • Phase 3 (C) is Blue label "L3" • Neutral is White label "NEU" 	
1.4 Starting Aids	1,
Starting Battery (Group 31), Cables & Battery Rack	1,
<ul style="list-style-type: none"> • Battery Rack mounted and installed • Battery Group 31 Starting Battery filled with acid • Qty 2 	
Battery Warming Plate	1,
Battery Charger: MicroGenius 2 10A	1,
<ul style="list-style-type: none"> • 300W • 10 Amp 	



	valid for product no.
<ul style="list-style-type: none"> • 24V • NFPA 110 • M3-22-1210-E 	
Battery Charger Mounted & DC Wired	1,
Note - This option will be factory-wired to the distribution panel (if selected)	1,
All water heaters have the AC connection wired to the distribution panel (if distribution panel is selected on order) EXCEPT for 480V or 3 Phase water heaters.	1,
Coolant Preheater	1,
<ul style="list-style-type: none"> • -20 Deg F Coolant Preheater (208V 1PH - 4000W) • Model: CL140810-200 • Qty 1 	
1.5 Genset Enclosure	1,
Level 3 Genset Enclosure	1,
<ul style="list-style-type: none"> • Weatherproof enclosure constructed of heavy gauge steel or aluminum 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. 	
Steel Enclosure Type	1,
130mph Wind Rated Steel	1,
Exhaust Scoop - Steel	1,
Sound Attenuation Kit	1,
Roof Foam Kit	1,
Intake Louver (Steel)	1,
1.6 Vibration Isolation	1,
SUA63015 Pad Isolators	1,
• ¼ inch thick elastomeric pad in rectangular shape placed under the base frame at each of the pre-drilled isolator mounting holes	
2 ENGINE CONFIGURATION	1,
2.1 Engine System	1,
Engine Model: JD 6135HFG84	1,
Oil Drain	1,



valid for
product no.
1,

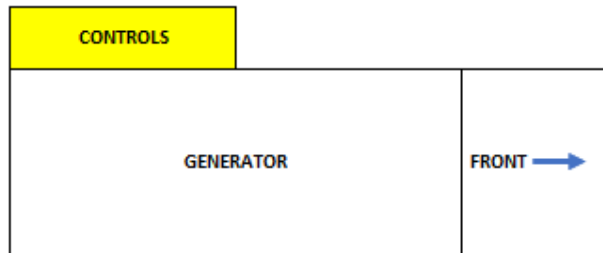
Note Emission Compliance:

The engines and/or systems, may only be certified to comply with the required country or region specific emission regulations. Where applicable, the engines and/or systems are only certified to those specific emission regulations/standards which are clearly stated in the respective RRPS/MTU defined technical specifications. It is the customer's sole responsibility to ensure that the export/import, installation and use of the engine and/or system complies with the applicable emissions regulations in the country or region where the engine and/or system will be used.

2.2	Exhaust System	1,
	Unit-Mounted Silencer 6"	1,
	<ul style="list-style-type: none"> • Silencer Model Number: JIIJ0Z-06SB-1-18060014 (Qty 1) • Silencer Model Number: TCGEpz-06SB06PF-1-18060030 (Qty 1) 	
2.3	FUEL SYSTEM	1,
	Non-Extended Fuel Tank matches the genset base footprint	1,
	24 HR 700 Gallon Non-Extended Sub Base Fuel Tank	1,
2.4	Air Intake System	1,
	Air Filter (Standard)	1,
	MTU Air Filter	1,
	<ul style="list-style-type: none"> • SUA86885 • Qty 1 	
	MTU Air Filter	1,
	<ul style="list-style-type: none"> • XG3012100019 • Qty 1 	
3	GENERATOR CONFIGURATION	1,
3.1	Generator Specification	1,
	PMG with DVR 2400	1,
	<ul style="list-style-type: none"> • 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 Model Number: 433PSL7520 (Base Model: 433CSL6220)	1,
	Measuring CT	1,
4	CONTROL PANEL CONFIGURATION	1,
4.1	Control panel	1,
	Control Panel Mounting	1,



Control Panel Mounted LH Side valid for product no. 1,



1,

Top View **Right Side**
 left Side **Controls**

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Remote Emergency Stop 1,

RDP-110 Annunciator Panel 1,

- The RDP-110 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-110.
- Unit can be flush or surface mounted.

1 Remote Annunciator 1,

MGC- 2000 Series 1,

- 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.

No Parallel Operation 1,

5 SERVICES AND AFTER SALES SUPPLY 1,

5.1 Warranty 1,

General Terms and Conditions of Sale, Warranty and After Sales Supply 1,
 Our offer is based on the attached General Terms and Conditions of Sale for MTU Products (Rev. V-601-1803 MUS & MOE) and the Warranty will be the attached Standard Two (2) Year / 3,000 Hour Basic Standby (3D), Prime (3B), and Data Center Continuous Power (DCCP) (3F) Limited



		valid for product no.
	Warranty (SYS-M-GEN-S-026).	
6	MISCELLANEOUS	1,
6.1	Painting	1,
	Paint Color: RAL 7001 Grey	1,
6.2	Documentation	1,
	<u>English</u>	1,
	1 Flash Drive	1,
	<u>English</u>	1,
	No Hard Copy	1,
	No Flash Drive	1,
	<u>French</u>	1,
	No Hard Copy	1,
	No Flash Drive	1,
	<u>Spanish</u>	1,
	No Hard Copy	1,
	No Flash Drive	1,
6.3	Additional Options	1,
	Distribution Panel	1,
	<ul style="list-style-type: none">• 125A 120/240VAC 1PH UL- Listed• 3R Enclosure	
	Unit Includes One (1) Convenience Receptacle	1,
	Convenience Receptacle is mounted on the same side of the outlet box as the Control Panel/No Control Panel options.	1,
	Note - This option will be factory-wired to the distribution panel (if selected)	1,
	Mechanical Drawing: Genset Dimensional HSD	1,
	• XZG3000100136	
	Mechanical Drawing: Genset Dimensional HSD	1,
	• XZG3000100137	



	valid for product no.
Mechanical Drawing: Fuel Tank • XZG3000100138	1,
Electrical Drawing: Engine • XZG30K0000045	1,
Electrical Drawing: Generator • XZG30K0000048	1,
Electrical Drawing: Breaker Options • XZG30K0000032	1,
Electrical Drawing: Customer Connections • XZG30K0000033	1,
Electrical Drawing: MGC 2020 • XZG3064400019	1,
Electrical Drawing: Distribution Panel • XZG30K0000034	1,
Electrical Drawing: Options Sheet • XZG30K0000037	1,
7 FUNCTIONAL TESTING	1,
7.1 Acceptance Testing	1,
Standard Commercial Test	1,
Tests to be reviewed and signed off by test engineer	1,
8 SHIPPING CONDITIONS	1,
8.1 Freight	1,
Ship unit with fluids installed	1,