



A Rolls-Royce
solution

Stock #: 224886

Technical Specification

and

Scope of Supply

**mtu 6R0120 DS150
DG06RM120A1N**

Customer: INDEL Power Group LLC

30.11.2022



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I. System Description

Product type	DG06RM120A1N
Application Group	mtu 6R0120 DS150
	3D - Emergency Standby power, IFN

Power as per MTU Sales Program

Power per genset (ISO 8528)	150	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)	150	kWel
Engine speed	1.800	rpm
Intake air temperature	25	°C
Coolant temperature	0	°C
Altitude	100	m

Requirements

Frequency	60 Hz
Generator voltage	240 V
EngineType	6R926G60S
Generator model	Marathon



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II. Selection Criteria for the Scope of Supply

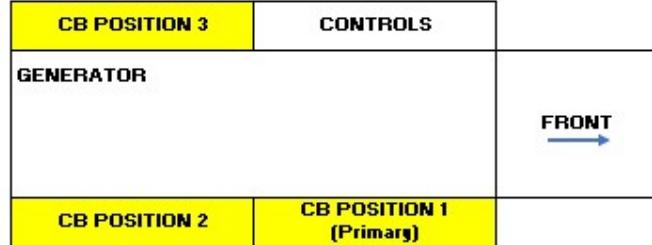
Criteria	Selection	for Product No.
Application	Emergency Standby (3D)	1,
Frequency	60 Hz	1,
Generator Voltage	240 V	1,
Phase	1 Phase	1,
Unit Specification	UL2200	1,
IBC Seismic Certification	Without IBC	1,
HCAI Certification	Without HCAI	1,
Engine Model	6R 7.2L OM926LA (12volts)	1,
Exhaust Emissions (EPA)	EPA "Nonroad" T. 3 Stationary (40 CFR 60)	1,
Radiator Design Temperature	50°C	1,
Temp Rise	105°	1,
Power Output	150 kW	1,
Full Load Amps	625	1,
Generator Frame and Wire Qty	431/6226 (4 Wire)	1,
Generator Wire Configuration	Dedicated	1,
OPU/HSD	Level 2 - Basic Sound Attenuation	1,
Fuel Tank	With Tank	1,
Control panel	With Control Panel	1,
Circuit Breaker Options	Single Circuit Breaker	1,
Breaker Wire Color Scheme	Standard Breaker Wire Color Scheme	1,
Paralleling	No Paralleling Operation	1,
Acceptance testing	Factory acceptance	1,
Country of Operation	USA/Canada	1,
Emission cert. authority	18 US EPA Agency	1,



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III. Scope of Supply

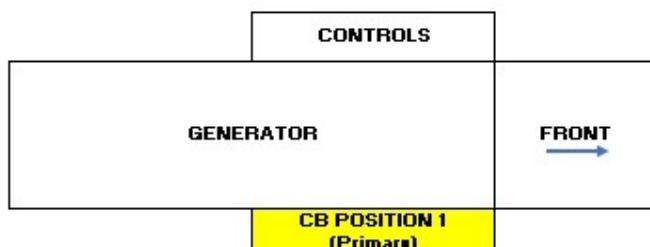
	valid for product no.
1 SYSTEM CONFIGURATION	1,
1.1 System Description	1,
Model: DG06RM120A1N	1,
1.2 Cooling Package	1,
50 Deg C Cooling System	1,
• Closed loop, liquid cooled, with radiator factory mounted on engine-generator set mounting frame and integral engine-driven coolant pump	
1.3 Circuit Breaker	1, 1,



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

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

1,



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

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Single Circuit Breaker

1,

Circuit Breaker Position 1:

1,



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1,
700 Amp 600 Volt 3 Pole 100% LSI CB SQ-D PGL36080CU33A

Circuit Breaker #1 Accessories: 1,

Standard 240 Volt 1 Phase Breaker Wire Scheme: 1,

- Phase 1 (A) is Black label "L1"
- Phase 2 (B) is Red label "L2"
- Neutral is White label "NEU"

Circuit Breaker Position 1: 1,

LSI Breaker Trip: 1,

- 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.

1.4 Starting Aids 1,

Starting Battery (Group 31), Cables & Battery Rack 1,

- Battery Rack mounted and installed
- Battery Group 31 Starting Battery filled with acid
- Qty 1

Battery Charger: MicroGenius 10A 1,

- 180W
- 10 Amp
- 12V
- NFPA 110

Battery Charger Mounted & AC/DC Wired 1,

Note - This option will be factory-wired to the distribution panel (if selected) 1,

With Coolant Preheating 1,

Coolant Preheater 1,

- -20 Deg F Coolant Preheater (120V 1PH - 1500W)
- Model: TPS151GT10-005
- Qty 1

Coolant Preheater Mounted & AC Wired 1,

1.5 Genset Enclosure 1,

Level 2 Genset Enclosure 190mph 1,

- Enhanced weather-protective enclosure constructed of heavy gauge steel or aluminum with fixed stormproof panels designed for 190 mph wind load rating. Skid-mounted enclosure consists of a bolted and welded construction with unit mounted internal silencer. Hinged, lockable double-door access on both sides of enclosure. UL 94 HF-1



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compliant, 1.5" thick sound attenuated foam insulation installed inside
enclosure walls where applicable.

Weather Proof Enclosure - Aluminum	1,
130mph Wind Rated	1,
Sound Attenuation Kit	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,
6R 7.2L OM926LA Charged Air Cooling	1,
Note Emission Compliance:	1,
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 5"	1,
• Silencer Model Number: CPJS-05X-90040066	
• Qty 1	
2.3 FUEL SYSTEM	1,
Tank Includes Spill Fill Containment (5 Gallon capacity)	1,
72 HR 1200 Gallon Extended Sub Base Fuel Tank (with Rear Stub-Up)	1,
2.4 Air Intake System	1,
Air Restriction Indicator	1,
Air Filter (Standard)	1,
MTU Air Filter	1,
• XG2112100001	
• Qty 1	

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3 GENERATOR CONFIGURATION

1,

3.1 Generator Specification

1,

Generator Model Number: 431/6226

1,

3.2 Generator accessories

1,

PMG with DVR 2400

1,

- 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.

4 CONTROL PANEL CONFIGURATION

1,

4.1 Control panel

1,

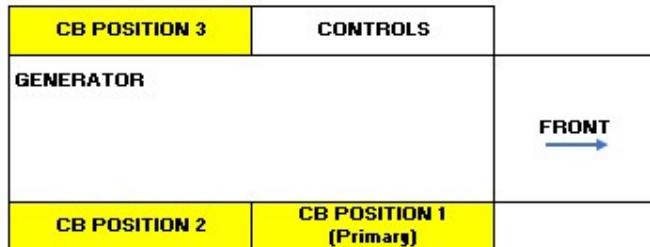
Circuit Breaker Position 1:

1,

Without Ground Fault

1,

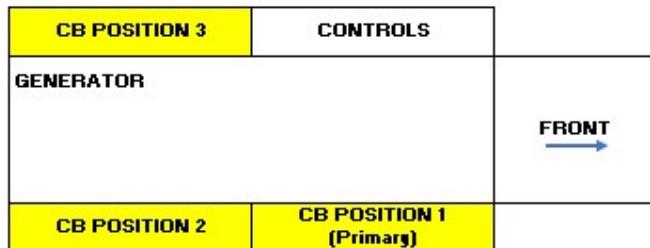
1,



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

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High Fuel Level Pre-Alarm	1,
Critical Low Fuel Level Alarm	1,
Contact Expansion Module (CEM)	1,
• 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.	
RDP-110 Announcer 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 Announcer	1,
MGC-1500 Series	1,
• MTU Onsite Energy's 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.	
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 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,



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		valid for product no.
<u>English</u>		1,
2 Hard Copy		1,
<u>French</u>		1,
<u>Spanish</u>		1,
6.3 Additional Options		1,
Mechanical Drawing: Genset Dimensional HSD		1,
• XZG2100100038		
Mechanical Drawing: Genset Dimensional HSG		1,
• XZG2100100040		
Mechanical Drawing: Fuel Tanks		1,
• XZG2100100047		
Electrical Drawing: Engine		1,
• XZG21K0000003		
Electrical Drawing: Generator		1,
• XZG21K0000010		
Electrical Drawing: Breaker Options		1,
• XZG21K0000002		
Electrical Drawing: Control Panel		1,
• XZG2100100054		
Electrical Drawing: Options Sheet		1,
• XZG21K0000009		
7 FUNCTIONAL TESTING		1,
7.1 Acceptance Testing		1,
Standard Commercial Test		1,
8 SHIPPING CONDITIONS		1,
8.1 Shipment		1,
Ship unit with fluids installed		1,
Genset Unit is enclosed in a Shipping Bag		1,

