



MT1500-MT1650E

Since 1996 Marapco Generating Sets have provided reliable, dependable and trustworthy power solutions for the global market. Marapco Generating Sets combine quality and performance to deliver a superior product, making Marapco a market leading Generating Set throughout Nigeria.

Generator Output Rating at - 50Hz

380-415V	KVA	KW
Prime	1500.0	1200.0
Standby	1650.0	1320.0

@ 0.8 p.f.

Generator Output Rating at - 60Hz

480V	KVA	KW
Prime	N/A	N/A
Standby	N/A	N/A

@ 0.8 p.f.

Engine Data

Engine Manufacturer:	MTU
Engine Model:	12V4000G23
Number of Cylinders:	12
Cylinder Arrangement:	Vee
Cycle:	4 Stroke
Bore/Stroke mm:	170.0 / 210.0
Induction:	Water Charge, Air Cooling
Compression ratio:	16.4:1
Displacement l:	57.2

General Data

	Liter	US/Gal
Fuel Tank Capacity:	N/A	N/A
Fuel Tank:	N/A	
Base Frame:	Heavy Duty-Powder Painted	
Control Panel:	Deep Sea Electronics	
Circuit Breaker:	3 Pole MCCB	

Performance		50Hz		60Hz	
Engine Speed:		1500		1800	
Gross Engine Power:		<i>kWm</i>	<i>Bhp</i>	<i>kWm</i>	<i>Bhp</i>
Prime:		1420	1930	N/A	N/A
Standby:		N/A	N/A	N/A	N/A
Fuel Consumption:		<i>L/Hr</i>	<i>US Gal/Hr</i>	<i>L/Hr</i>	<i>US Gal/Hr</i>
at 75% power rating:		250.2	66.09	N/A	N/A
at 100% power rating:		323.3	85.40	N/A	N/A

Standard Reference Conditions:

Output ratings are presented at normal conditions of temperature and pressure. This generator set is designed to operate in high ambient temperatures and altitudes. Please consult your dealer for specific site ratings.

* In line with our policy of continuous product development, we reserve the right to change specification without notice.

Dimensions and Weights (Radiator not included)

Length		Width		Height		Dry		Wet	
Millimeter	Inch	Millimeter	Inch	Millimeter	Inch	KG	LB	KG	LB
4419	173.98	1836	72.28	2330	91.73	10477	23,097		

* With Lube Oil

* With Lube Oil & Coolant

Marapco Ltd
8 Meadowbank Rd - Carrickfergus - N. Ireland - U.K. BT 38 8YF
Tel: +44 (0) 2893 355674 - www.marpaco.com - Email: sales@marapco.com

Rating Definition

Prime Rating

These rating are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. This model can supply 10% overload power for 1 hour in 12 hours.

Standby Rating

These rating are applicable for supply continuous electrical power (at variable load) in the event of utility power failure. No *overload* is permitted on these ratings. The alternator model is peak continuous rated (as defined in ISO 8528-3)

Air Flow

50 Hz 60 Hz

	M ³ /min	Ft ³ /min	M ³ /min	Ft ³ /min
Combustion Air Flow:	96.0	3390	N/A	N/A
Exhaust Gas Flow:	240.0	8475	N/A	N/A
Radiator Cooling Air Flow:	1848	65261	N/A	N/A

*Cooling system designed to operate in ambient conditions

Alternator Data

Alternator Manufacturer: Leroy Somer

Alternator Model: LSA 51.2 S55

Number of Bearings: Single (1)

Insulation Class: H

Total Harmonic Content: 3.00%

Wires: 6

Ingress Protection Rating: IP 23

Excitation System: AREP

Winding Pitch Code: 2/3 - 6S

Principles



MTU Onsite Energy is one of the core brands of Rolls-Royce Power Systems AG which is a world-leading provider of high- and medium-speed diesel and gas engines.



Leroy Somer is a world leader in the manufacturing of power generation, combining quality with performance to produce a market leading alternator for MARAPCO.



Deep Sea Electronics control modules deliver unrivaled functionality and performance. MARAPCO generating sets use this latest technology to its full potential.

Logos are registered trademarks of MTU, Leroy Somer & Deep Sea Electronics

Sound Attenuated Enclosure

Length

Millimeter	Inch
N/A	N/A

Width

Millimeter	Inch
N/A	N/A

Height

Millimeter	Inch
N/A	N/A

Sound Pressure Level's:

50 Hz

60 Hz

dBA @ 1m (100% Load)

N/A

N/A

dBA @ 5m (100% Load)

N/A

N/A

dBA @ 7m (100% Load)

N/A

N/A

Cooling & Lubrication

50 Hz

60 Hz

	Liter	US/Gal	Liter	US/Gal
Coolant Capacity:	200.0	52.8	N/A	N/A
Lube Oil Capacity:	260.0	68.6	N/A	N/A

	°C	°F	°C	°F
Exhaust Temperature:	430	806	N/A	N/A

Other Information

Generating Set Standards

This generating set meets the following standards: ISO8528-1, ISO3046-1, BS5514, AS2789

Warranty

This generator is covered against manufacturing and workmanship defects. Kindly refer to warranty statement for more details.

Picture shown in leaflet may include optional accessories

Distributed & Serviced by:



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