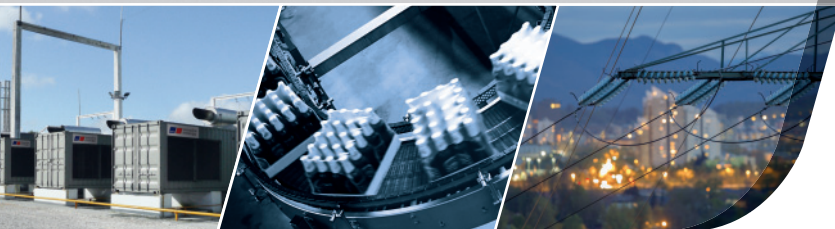
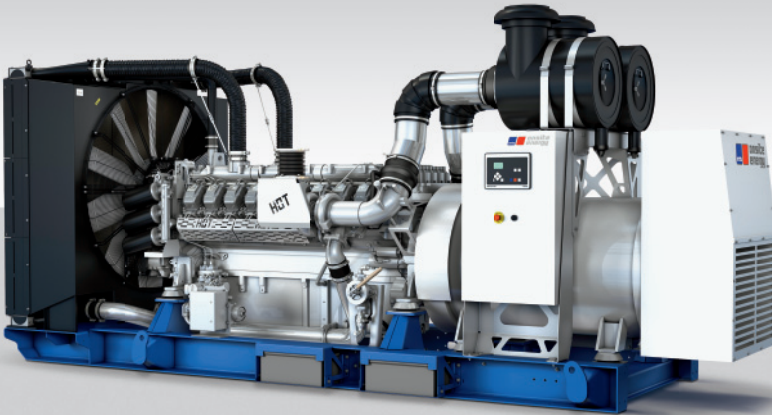


MTU ONSITE ENERGY
DIESEL GENERATOR SETS



TST CO.

www.TST-CO.com



CONTENTS

04	Rating definitions for diesel generator sets	24	Prime Power – 50 Hz/ 1500 rpm – only available in South America
08	Standby Power – 50 Hz/ 1500 rpm	26	Prime Power – 60 Hz/ 1800 rpm
10	Standby Power – 50 Hz/ 1500 rpm – only available in South America	30	Grid Stability Power – 50 Hz/ 1500 rpm
12	Standby Power – 60 Hz/ 1800 rpm	32	Continuous Power – 50 Hz/ 1500 rpm
16	Standby Power with overload – 50 Hz/ 1500 rpm	34	Container/Enclosures – 50 Hz/ 1500 rpm
18	Data Center Continuous Power – 50 Hz/ 1500 rpm	36	Enclosures – 60 Hz/ 1800 rpm
20	Data Center Continuous Power – 60 Hz/ 1800 rpm	38	Power Modules – 50Hz/ 1500 rpm and 60 Hz/ 1800 rpm
22	Prime Power – 50 Hz/ 1500 rpm	42	Classifications for Data Centers – according to Uptime Institute
		43	Footnotes

COMBINING OUR RESOURCES TO SUPPLY YOU WITH DEPENDABLE ENERGY: ANYTIME. ANYWHERE.

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, complete drive systems, distributed energy systems and fuel injection systems for the most demanding environments.

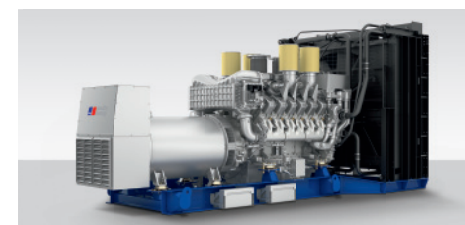
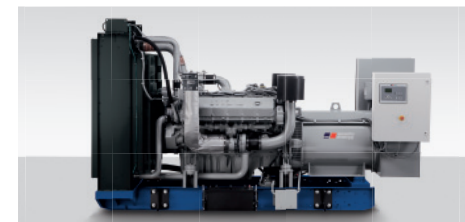
MTU Onsite Energy offers complete power system solutions: from mission critical to standby power to continuous power, to combined heat and cooling. We also provide a full line of service products to help you get the most from your equipment.

Customers around the world trust us to provide reliable power for a wide range of applications.

Our product portfolio covers diesel generator sets up to 3,250 kW, gas-powered cogeneration systems up to 2,500 kW and gas turbines up to 50,000 kW, furthermore medium-speed engines for land-based energy solutions up to 9,300 kW as part of the Rolls-Royce Power Systems AG product portfolio.

More than 60 years of power generation systems expertise and over a century of diesel engine engineering experience have enabled us to provide complete solutions all over the globe.

We continue to develop sustainable alternatives, with systems that produce greener energy from climate-neutral, regenerative fuels, such as combined heat and power (CHP) plants.



RATING DEFINITIONS FOR DIESEL GENERATOR SETS

Standby ratings

Standby Power

Standby Power ratings apply to installations served by a reliable utility source. The standby ratings are applicable to varying loads for the duration of a power outage.

Typical applications: industrial and manufacturing plants, residential areas, healthcare and hospitals, airports.



Standby Power with Overload ^(A)

Standby Power with Overload ratings apply to installations served by a reliable utility source. The standby ratings are applicable to varying loads for the duration of a power outage.

Typical applications: industrial and manufacturing plants, residential areas, healthcare and hospitals, airports. 10% overload is available.



Data Center Continuous Power

Data Center Continuous Power ratings apply to data center installations where a reliable utility power is available and comply with Uptime Institute* Tier III and IV requirements. At constant or varying load.

Typical applications: data centers. 10% overload is available.



* The Uptime Institute is a pioneer in creating and operating knowledge communities for improving uptime effectiveness in data center facilities and information technology organizations.

^A Only available for 50Hz markets

^B Unlimited hours in data center application where a reliable grid / utility is present.

Prime ratings

Prime Power

Prime Power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited.

Typical applications: construction sites, remote areas. 10% overload is available.



Grid Stability Power ^(A)

Grid Stability Power ratings apply to installations operating in support of utility networks or grids (especially when renewable power sources are used). At constant or varying load.

Typical applications: peak shaving, grid stability and capacity programs. 10% overload is available.



Continuous ratings

Continuous Power ^(A)

Continuous Power ratings apply to installations where one or several generator sets serve as utility. At constant or varying load, the number of generator set operating hours is unlimited.

Typical applications: power stations. 10% overload is available.



RATING DEFINITIONS

OVERVIEW

Standby ratings

Standby Power	MTU Onsite Energy	ISO 8528-1 (ESP)
Load	variable	variable
Load factor	≤ 85 %	≤ 70 %
10% overload (ICXN)	no	not specified
Max. operating hours (per year)	500 h	200 h
Uptime compliant	Tier I & Tier II	not specified

Standby Power with Overload ^(A)	MTU Onsite Energy	ISO 8528-1 (ESP)
Load	variable	variable
Load factor	≤ 85 %	≤ 70 %
10% overload (ICXN)	yes	not specified
Max. operating hours (per year)	500 h	200 h
Uptime compliant	Tier I & Tier II	not specified

Data Center Continuous Power	MTU Onsite Energy	ISO 8528-1
Load	continuous	n.a.
Load factor	≤ 100 %	n.a.
10% overload (ICXN)	yes	n.a.
Max. operating hours (per year)	unlimited ^(B)	n.a.
Uptime compliant	Tier III & Tier IV	n.a.

Prime ratings

Prime Power	MTU Onsite Energy	ISO 8528-1 (PRP)
Load	variable	variable
Load factor	≤ 75 %	≤ 70 %
10% overload (ICXN)	yes	not specified
Max. operating hours (per year)	unlimited	unlimited
Uptime compliant	Tier I & Tier II	not specified

Grid Stability Power ^(A)	MTU Onsite Energy	ISO 8528-1 (LTP)
Load	continuous	continuous
Load factor	≤ 100 %	≤ 100 %
10% overload (ICXN)	yes	not specified
Max. operating hours (per year)	1000 h; 500 h with 100% load w/o interruption	500 h
Uptime compliant	Tier I & Tier II	not specified

Continuous rating

Continuous Power	MTU Onsite Energy	ISO 8528-1 (COP)
Load	constant	constant
Load factor	≤ 100 %	≤ 100 %
10% overload (ICXN)	yes	not specified
Max. operating hours (per year)	unlimited	unlimited
Uptime compliant	Tier III & Tier IV	not specified

^A Only available for 50Hz markets

^B Unlimited hours in data center application where a reliable grid / utility is present.

Application descriptions, e.g. load factor, applies to MTU powered equipment.

	Power output ⁽¹⁾		Available voltages							Emissions							Certifications				Perform. class ⁽²⁾		Uptime compl.		Housing		Engine type	Cooling variant ⁽³⁾	Genset type	
	kVA	kWe	380 V	400 V	415 V	6300 V	6600 V	10000 V	10500 V	11000 V	Fuel consumption optimized	Exhaust emission optimized acc. TA-Luft	NEA Singapore for ORDE	compliant EPA Tier 2	Exhaust emission EU 97/68 EC Stage II	Exhaust emission EU 97/68 EC Stage IIIA	Exhaust emission EU 97/68 EC Stage IIIA under FLEX program	ISO 8528	CE / IEC	NFPA 110	German Grid Code	ISO 8528-5 - G2	ISO 8528-5 - G3	Tier I & Tier II	Tier III & Tier IV	Enclosure	Container			
MTU 0080/0113 DS	33 ⁽⁴⁾	25	x	x	x									x			x	x						x			F32 AM 1A	A2A	MTU 4R 0080 DS33	
	45 ⁽⁴⁾	28	x	x	x									x			x	x						x			F32 SM 1A	A2A	MTU 4R 0080 DS45	
	55 ⁽⁴⁾	37	x	x	x									x			x	x						x			F32 TM 1A	A2A	MTU 4R 0080 DS55	
	63 ⁽⁴⁾	54	x	x	x									x			x	x							x			NEF45 SM 1A	A2A	MTU 4R 0113 DS63
	80 ⁽⁴⁾	87	x	x	x									x			x	x							x			NEF45 SM 2A	A2A	MTU 4R 0113 DS80
	94 ⁽⁴⁾	122	x	x	x									x			x	x							x			NEF45 SM 5	A2A	MTU 4R 0113 DS94
MTU 1600 DS	305 ⁽⁴⁾	244	x	x	x								x			x	x	x						x				6R 1600 G70F	A2A	MTU 6R 1600 DS300
	330 ⁽⁴⁾	264	x	x	x								x			x	x	x						x				6R 1600 G80F	A2A	MTU 6R 1600 DS330
	400 ⁽⁴⁾	320	x	x	x								x			x	x	x						x				8V 1600 G70F	A2A	MTU 8V 1600 DS400
	445 ⁽⁴⁾	356	x	x	x								x			x	x	x						x				8V 1600 G80F	A2A	MTU 8V 1600 DS440
	500 ⁽⁴⁾	400	x	x	x								x			x	x	x						x				10V 1600 G70F	A2A	MTU 10V 1600 DS500
	560 ⁽⁴⁾	448	x	x	x								x			x	x	x						x				10V 1600 G80F	A2A	MTU 10V 1600 DS560
	660 ⁽⁴⁾	528	x	x	x								x			x	x	x						x				12V 1600 G70F	A2A	MTU 12V 1600 DS660
	730 ⁽⁴⁾	584	x	x	x								x			x	x	x						x				12V 1600 G80F	A2A	MTU 12V 1600 DS730
MTU 2000 DS-G05	850	680	x	x	x								x			x	x	x										12V 2000 G65	A2A	MTU 12V 2000 DS850
	890	712	x	x	x								x			x	x	x										12V 2000 G65TB	W2A	MTU 12V 2000 DS890
	1000	800	x	x	x								x			x	x	x										16V 2000 G25	A2A	MTU 16V 2000 DS1000
	1050	840	x	x	x								x			x	x	x										16V 2000 G25TB	W2A	MTU 16V 2000 DS1050
	1100	880	x	x	x								x			x	x	x										16V 2000 G65	A2A	MTU 16V 2000 DS1100
	1140	912	x	x	x								x			x	x	x										16V 2000 G65TB	W2A	MTU 16V 2000 DS1140
	1250 ⁽⁵⁾	1000	x	x	x								x			x	x	x										18V 2000 G65	A2A	MTU 18V 2000 DS1250
	1290	1032	x	x	x								x			x	x	x										18V 2000 G65TB	W2A	MTU 18V 2000 DS1290
MTU 2000 DS-G06	825	660	x	x	x								x			x	x	x						x	x			12V 2000 G76F	A2A	MTU 12V 2000 DS825
	1010	800	x	x	x								x			x	x	x						x	x			12V 2000 G86F	A2A	MTU 12V 2000 DS1000
	1100	880	x	x	x								x			x	x	x						x	x			16V 2000 G76F	A2A	MTU 16V 2000 DS1100
	1250	1000	x	x	x								x			x	x	x						x	x			16V 2000 G86F	A2A	MTU 16V 2000 DS1250
	1400	1120	x	x	x	x	x	x	x	x			x			x	x	x						x				18V 2000 G76F	A2A	MTU 18V 2000 DS1400
MTU 4000 DS	1700	1360	x	x	x								x			x	x	x										12V 4000 G23	W2A	MTU 12V 4000 DS1650
	1800	1440	x	x	x								x			x	x	x										12V 4000 G23	W2A	MTU 12V 4000 DS1750
	2000	1600	x	x	x								x			x	x	x										12V 4000 G63	W2A	MTU 12V 4000 DS2000
	2300	1840	x	x	x								x			x	x	x										16V 4000 G23	W2A	MTU 16V 4000 DS2250
	2400	1920	x	x	x								x			x	x	x										16V 4000 G63	W2A	MTU 16V 4000 DS2500
	2700	2160	x	x	x								x			x	x	x										20V 4000 G23	W2A	MTU 20V 4000 DS2650
	3150	2520	x	x	x								x			x	x	x										20V 4000 G63	W2A	MTU 20V 4000 DS3100
	3250	2600	x	x	x								x			x	x	x										20V 4000 G63L	W2A	MTU 20V 4000 DS3200

	Power output ⁽¹⁾		Available voltages							Emissions							Certifications				Perform. class ⁽²⁾		Uptime compl.		Housing		Engine type	Cooling variant ⁽³⁾	Genset type									
	kVA	kWe	220 V	380 V	400 V	415 kV	3,3 kV	10000 V	10500 V	11000 V	Fuel consumption optimized	Exhaust emission optimized acc. TA-Luft	NEA Singapore for ORDE	compliant EPA Tier 2	Exhaust emission EU 97/68 EC Stage II	Exhaust emission EU 97/68 EC Stage IIIA	Exhaust emission EU 97/68 EC Stage IIIA under FLEX program	ISO 8528	CE compliant	NFPA 110	German Grid Code	ISO 8528-5 - G2	ISO 8528-5 - G3	Tier I & Tier II	Tier III & Tier IV	Enclosure	Container											
MTU 0096 DS	30	24	x	x	x	x				x							x	x			x											3029 TFG89	TC only	MTU 3R0096 DS34				
	40	32	x	x	x	x				x							x	x			x												4045 TF280	TC only	MTU 3R0096 DS44			
	50	40	x	x	x	x				x							x	x			x												4045 HF280	TC only	MTU 3R0096 DS55			
MTU 0120 DS	89	71	x	x	x	x									x		x	x		x		x		x										4R 924 G60F	A2A	MTU 4R0120 DS90		
	111	89	x	x	x	x									x		x	x		x		x		x										4R 924 G70F	A2A	MTU 4R0120 DS110		
	139	111	x	x	x	x									x		x	x		x		x		x										4R 924 G80F	A2A	MTU 4R0120 DS140		
	167	134	x	x	x	x									x		x	x		x		x		x											6R 924 G60F	A2A	MTU 6R0120 DS165	
	200	160	x	x	x	x									x		x	x		x		x		x											6R 924 G70F	A2A	MTU 6R0120 DS200	
	222	178	x	x	x	x								x		x	x		x		x		x											6R 924 G80F	A2A	MTU 6R0120 DS220		
MTU 1600 DS	300	240	x	x	x					x							x	x		x		x													6R 1600 G70F	A2A	MTU 6R 1600 DS300	
	330	264	x	x	x					x							x	x		x		x													6R 1600 G80F	A2A	MTU 6R 1600 DS330	
	400	320	x	x	x					x							x	x		x		x													8V 1600 G70F	A2A	MTU 8V 1600 DS400	
	440	352	x	x	x					x							x	x		x		x														8V 1600 G780F	A2A	MTU 8V 1600 DS440
	500	400	x	x	x					x							x	x		x		x														10V 1600 G70F	A2A	MTU 10V 1600 DS500
	550	440	x	x	x					x							x	x		x		x														10V 1600 G80F	A2A	MTU 10V 1600 DS550
	650	520	x	x	x					x							x	x		x		x														12V 1600 G70F	A2A	MTU 12V 1600 DS650
	715	572	x	x	x				x							x	x		x		x														12V 1600 G80F	A2A	MTU 12V 1600 DS715	
MTU 2000 DS	1400	1120	x	x	x	x				x							x	x		x		x													18V 2000 G76F	A2A	MTU 18V 2000 DS1400	

Power output ⁽¹⁾		Available voltages										Emissions				Certifications				Uptime compliant		Housing		Engine type	Cooling variant ⁽³⁾	Genset type	
kWe	kVA	240 V Dedicated (1 Phase)	240 V Re-connectable (1Ph.)	208 V (3 Phase)	240 V (3 Phase)	380 V (3 Phase)	480 V (3 Phase)	600 V (3 Phase)	4160 V (3 Phase)	12470 V (3 Phase)	13200 V (3 Phase)	13800 V (3 Phase)	EPA Tier 4i	EPA Tier 3	EPA Tier 2	Fuel consumption optimized	ISO 8528	UL2200	NFPA 110	IBC 2012	Tier I & Tier II	Tier III & Tier IV	Enclosure	Container			
30	38	x	x	x	x	x	x	x				x					x	x	x		x		x		3029TF289	TC only	MTU 3R 0096 DS30
35	44	x	x	x	x	x	x	x					x				x	x	x	x	x		x		4045TF280	TC only	MTU 4R 0113 DS35
40	50	x	x	x	x	x	x	x					x				x	x	x	x	x		x		4045TF280	TC only	MTU 4R 0113 DS40
50	63	x	x	x	x	x	x	x					x				x	x	x	x	x		x		4045TF280	TC only	MTU 4R 0113 DS50
60	75	x	x	x	x	x	x	x					x				x	x	x	x	x		x		4045HF280	A2A	MTU 4R 0113 DS60
80	100	x	x	x	x	x	x	x					x				x	x	x	x	x		x		4045HF285	A2A	MTU 4R 0113 DS80
100	125	x	x	x	x	x	x	x					x				x	x	x	x	x		x		4045HF285	A2A	MTU 4R 0113 DS100
125	156	x	x	x	x	x	x	x					x				x	x	x	x	x		x		4045HF285	A2A	MTU 4R 0113 DS125
150	188	x	x	x	x	x	x	x					x				x	x	x	x	x		x		6068HF285	A2A	MTU 6R 0113 DS150
180	225	x	x	x	x	x	x	x					x				x	x	x	x	x		x		6068HF485	A2A	MTU 6R 0113 DS180
200	250	x	x	x	x	x	x	x					x				x	x	x	x	x		x		6068HF485	A2A	MTU 6R 0113 DS200
72	90	x	x	x	x	x	x	x					x				x	x	x		x		x		4R 924 G60S	A2A	MTU 4R 0120 DS80
90	113	x	x	x	x	x	x	x					x				x	x	x		x		x		4R 924 G70S	A2A	MTU 4R 0120 DS100
111	139	x	x	x	x	x	x	x					x				x	x	x		x		x		4R 924 G80S	A2A	MTU 4R 0120 DS125
135	169	x	x	x	x	x	x	x					x				x	x	x		x		x		6R 926 G60S	A2A	MTU 6R 0120 DS150
163	204	x	x	x	x	x	x	x					x				x	x	x		x		x		6R 926 G70S	A2A	MTU 6R 0120 DS180
180	225	x	x	x	x	x	x	x					x				x	x	x		x		x		6R 926 G80S	A2A	MTU 6R 0120 DS200
230	288			x	x	x	x	x					x				x	x	x	x	x		x		6R 1600 G70S	A2A	MTU 6R 1600 DS230
250	313			x	x	x	x	x					x				x	x	x	x	x		x		6R 1600 G70S	A2A	MTU 6R 1600 DS250
275	344			x	x	x	x	x					x				x	x	x	x	x		x		6R 1600 G70S	A2A	MTU 6R 1600 DS275
300	375			x	x	x	x	x					x				x	x	x	x	x		x		6R 1600 G80S	A2A	MTU 6R 1600 DS300
350	438			x	x	x	x	x					x				x	x	x	x	x		x		8V 1600 G70S	A2A	MTU 8V 1600 DS350
400	500			x	x	x	x	x					x				x	x	x	x	x		x		8V 1600 G80S	A2A	MTU 8V 1600 DS400
450	563			x	x	x	x	x					x				x	x	x	x	x		x		10V 1600 G70S	A2A	MTU 10V 1600 DS450
500	625			x	x	x	x	x						x			x	x	x	x	x		x		10V 1600 G80S	A2A	MTU 10V 1600 DS500
550	688			x	x	x	x	x						x			x	x	x	x	x		x		12V 1600 G70S	A2A	MTU 12V 1600 DS550
600	750			x	x	x	x	x						x			x	x	x	x	x		x		12V 1600 G80S	A2A	MTU 12V 1600 DS600

MTU 0096 / 0113 DS

MTU 0120 DS

MTU 1600 DS

	Power output ⁽¹⁾		Available voltages										Emissions				Certifications				Uptime compliant		Housing		Engine type	Cooling variant ⁽³⁾	Genset type	
	kWe	kVA	240 V Dedicated (1 Phase)	240 V Re-connectable (1Ph.)	208 V (3 Phase)	240 V (3 Phase)	380 V (3 Phase)	480 V (3 Phase)	600 V (3 Phase)	4160 V (3 Phase)	12470 V (3 Phase)	13200 V (3 Phase)	13800 V (3 Phase)	EPA Tier 4i	EPA Tier 3	EPA Tier 2	Fuel consumption optimized	ISO 8528	UL2200	NFPA 110	IBC 2012	Tier I & Tier II	Tier III & Tier IV	Enclosure	Container			
MTU 2000 DS	650	813			x	x	x	x	x	x	x				x		x	x	x	x	x			x		12V 2000 G45	W2A	MTU 12V 2000 DS650
	750	938			x	x	x	x	x	x	x				x		x	x	x	x	x			x		12V 2000 G85	W2A	MTU 12V 2000 DS750
	800	1000			x	x	x	x	x	x	x				x		x	x	x	x	x			x		12V 2000 G85	W2A	MTU 12V 2000 DS800
	900	1125			x	x	x	x	x	x	x				x		x	x	x	x	x			x		16V 2000 G45	W2A	MTU 16V 2000 DS900
	1000	1250			x	x	x	x	x	x	x				x		x	x	x	x	x			x		16V 2000 G85	W2A	MTU 16V 2000 DS1000
	1180	1475							x						x		x	x	x	x	x			x		18V 2000 G85	A2A	MTU 18V 2000 DS1200
	1250	1563						x	x	x	x				x		x	x	x					x		18V 2000 G76S	A2A	MTU 18V 2000 DS1250
	MTU 4000 DS	1500	1875					x	x	x	x				x		x	x	x	x					x		12V 4000 G43	W2A
1750		2188					x	x	x	x				x		x	x	x	x					x		12V 4000 G83	W2A	MTU 12V 4000 DS1750
2000		2500					x	x	x	x	x	x		x		x	x	x	x					x		16V 4000 G43	W2A	MTU 16V 4000 DS2000
2250		2813					x	x	x	x	x	x		x		x	x	x	x					x		16V 4000 G83	W2A	MTU 16V 4000 DS2250
2500		3125					x	x	x	x	x	x		x		x	x	x	x					x		16V 4000 G83L	W2A	MTU 16V 4000 DS2500
2500		3125					x	x	x	x	x	x		x		x	x	x	x					x		20V 4000 G43	W2A	MTU 16V 4000 DS2500
2800		3500					x	x	x	x	x	x		x		x	x	x	x					x		20V 4000 G83L	W2A	MTU 20V 4000 DS2800
3000		3750					x	x	x	x	x	x		x		x	x	x	x					x		20V 4000 G83L	W2A	MTU 20V 4000 DS3000
3250		4063					x	x	x	x	x	x		x		x	x	x	x					x		20V 4000 G83L	W2A	MTU 20V 4000 DS3250

Standby Power with Overload – 50 Hz / 1500 rpm

Power output ⁽¹⁾		Available voltages							Emissions							Certifications				Perform. class ⁽²⁾		Uptime compl.		Housing		Engine type	Cooling variant ⁽³⁾	Genset type				
		kVA	kWe	380 V	400 V	415 V	6300 V	6600 V	10000 V	10500 V	11000 V	Fuel consumption optimized	Exhaust emission optimized acc. TA-Luft	NEA Singapore for ORDE	compliant EPA Tier 2	Exhaust emission EU 97/68 EC Stage II	Exhaust emission EU 97/68 EC Stage IIIA	Exhaust emission EU 97/68 EC Stage IIIA under FLEX program	ISO 8528	CE/IEC	NFPA 110	German Grid Code	ISO 8528-5 - G2	ISO 8528-5 - G3	Tier I & Tier II				Tier III & Tier IV	Enclosure	Container	
MTU 4000 DS	1550	1240	x	x	x			x	x	x	x	x	x					x	x	x	x	x	x							12V 4000 G23	W2A	MTU 12V 4000 DS1650
	1650	1320	x	x	x			x	x	x	x	x	x					x	x	x	x	x	x					12V 4000 G23	W2A	MTU 12V 4000 DS1750		
	1850	1480	x	x	x			x	x	x	x	x	x					x	x	x	x	x	x					12V 4000 G63	W2A	MTU 12V 4000 DS2000		
	2100	1680	x	x	x			x	x	x	x	x	x					x	x	x	x	x	x					16V 4000 G23	W2A	MTU 16V 4000 DS2250		
	2250	1800	x	x	x			x	x	x	x	x	x					x	x	x	x	x	x					16V 4000 G63	W2A	MTU 16V 4000 DS2500		
	2600	2080	x	x	x			x	x	x	x	x	x					x	x	x	x	x	x					20V 4000 G23	W2A	MTU 20V 4000 DS2650		
	2850	2280	x	x	x			x	x	x	x	x	x					x	x	x	x	x	x					20V 4000 G63	W2A	MTU 20V 4000 DS3100		
	3100	2480	x	x	x			x	x	x	x	x	x					x	x	x	x	x	x					20V 4000 G63L	W2A	MTU 20V 4000 DS3200		

Standby Power with Overload – 50 Hz

	Power output ⁽¹⁾		Available voltages							Emissions							Certifications				Perform. class ⁽²⁾		Uptime compl.		Housing		Engine type	Cooling variant ⁽³⁾	Genset type
	kVA	kWe	380 V	400 V	415 V	6300 V	6600 V	10000 V	10500 V	11000 V	Fuel consumption optimized	Exhaust emission optimized acc. TA-Luft	NEA Singapore for ORDE	compliant EPA Tier 2	Exhaust emission EU 97/68 EC Stage II	Exhaust emission EU 97/68 EC Stage IIIA	Exhaust emission EU 97/68 EC Stage IIIA under FLEX program	ISO 8528	CE/IEC	NFPA 110	German Grid Code	ISO 8528-5 - G2	ISO 8528-5 - G3	Tier I & Tier II	Tier III & Tier IV	Enclosure	Container		
MTU 4000 DS	1550	1240	x	x	x			x	x	x	x	x					x	x	x	x			x	x			12V 4000 G23	W2A	MTU 12V 4000 DS1650
	1650	1320	x	x	x			x	x	x	x	x					x	x	x	x			x	x			12V 4000 G23	W2A	MTU 12V 4000 DS1750
	1850	1480	x	x	x			x	x	x	x	x					x	x	x	x			x	x			12V 4000 G63	W2A	MTU 12V 4000 DS2000
	2100	1680	x	x	x			x	x	x	x	x					x	x	x	x			x	x			16V 4000 G23	W2A	MTU 16V 4000 DS2250
	2250	1800	x	x	x			x	x	x	x	x					x	x	x	x			x	x			16V 4000 G63	W2A	MTU 16V 4000 DS2500
	2600	2080	x	x	x			x	x	x	x	x					x	x	x	x			x	x			20V 4000 G23	W2A	MTU 20V 4000 DS2650
	2850	2280	x	x	x			x	x	x	x	x					x	x	x	x			x	x			20V 4000 G63	W2A	MTU 20V 4000 DS3100
	3100	2480	x	x	x			x	x	x	x	x					x	x	x	x			x	x			20V 4000 G63L	W2A	MTU 20V 4000 DS3200

Data Center Continuous Power – 50 Hz

Power output ⁽¹⁾		Available voltages									Emissions				Certifications				Uptime compliant		Housing		Engine type	Cooling variant ⁽³⁾	Genset type		
kWe	kVA	240 V Dedicated (1 Phase)	240 V Re-connectable (1Ph.)	208 V (3 Phase)	240 V (3 Phase)	380 V (3 Phase)	480 V (3 Phase)	600 V (3 Phase)	4160 V (3 Phase)	12470 V (3 Phase)	13200 V (3 Phase)	13800 V (3 Phase)	EPA Tier 4i	EPA Tier 3	EPA Tier 2	Fuel consumption optimized	ISO 8528	UL2200	NFPA 110	IBC 2012	Tier I & Tier II	Tier III & Tier IV	Enclosure	Container			
1135	1419					X	X	X	X						X	X	X	X	X	X	X	X					MTU 12V 4000 DS1250
1400	1750					X	X	X	X						X	X	X	X	X	X	X	X					MTU 12V 4000 DS1500
1600	2000					X	X	X	X						X	X	X	X	X	X	X	X					MTU 12V 4000 DS1750
1825	2281					X	X	X	X	X	X	X			X	X	X	X	X	X	X	X					MTU 16V 4000 DS2000
2045	2555					X	X	X	X	X	X	X			X	X	X	X	X	X	X	X					MTU 16V 4000 DS2250
2275	2844					X	X	X	X	X	X	X			X	X	X	X	X	X	X	X					MTU 20V 4000 DS2500
2500	3125					X	X	X	X	X	X	X			X	X	X	X	X	X	X	X					MTU 20V 4000 DS2800
2800	3500					X	X	X	X	X	X	X			X	X	X	X	X	X	X	X					MTU 20V 4000 DS3000

MTU 4000 DS

Data Center Continuous Power 60 Hz

	Power output ⁽¹⁾		Available voltages							Emissions							Certifications				Perform. class ⁽²⁾		Uptime compl.		Housing		Engine type	Cooling variant ⁽³⁾	Genset type						
	kVA	kWe	380 V	400 V	415 V	6300 V	6600 V	10000 V	10500 V	11000 V	Fuel consumption optimized	Exhaust emission optimized acc. TA-Luft	NEA Singapore for ORDE	compliant EPA Tier 2	Exhaust emission EU 97/68 EC Stage II	Exhaust emission EU 97/68 EC Stage IIIA	Exhaust emission EU 97/68 EC Stage IIIA under FLEX program	ISO 8528	CE / IEC	NFPA 110	German Grid Code	ISO 8528-5 - G2	ISO 8528-5 - G3	Tier I & Tier II	Tier III & Tier IV	Enclosure	Container								
MTU 0080/0113 DS	30 ⁽⁴⁾	24	x	x	x									x			x	x			x												MTU 4R0080 DS33		
	41 ⁽⁴⁾	33	x	x	x									x			x	x			x												MTU 4R0080 DS45		
	50 ⁽⁴⁾	40	x	x	x									x			x	x			x												MTU 4R0080 DS55		
	60 ⁽⁴⁾	48	x	x	x									x			x	x			x													MTU 4R0113 DS63	
	73 ⁽⁴⁾	58	x	x	x									x			x	x			x													MTU 4R0113 DS80	
	85 ⁽⁴⁾	68	x	x	x						x				x			x	x			x												MTU 4R0113 DS94	
MTU 1600 DS	280 ⁽⁴⁾	224	x	x	x					x							x	x	x		x	x	x											MTU 6R1600 DS300	
	300 ⁽⁴⁾	240	x	x	x					x							x	x	x		x	x	x											MTU 6R1600 DS330	
	350 ⁽⁴⁾	280	x	x	x					x							x	x	x		x	x	x											MTU 8V1600 DS400	
	400 ⁽⁴⁾	320	x	x	x					x							x	x	x		x	x	x											MTU 8V1600 DS440	
	460 ⁽⁴⁾	368	x	x	x					x							x	x	x		x	x	x											MTU 10V1600 DS500	
	510 ⁽⁴⁾	408	x	x	x					x							x	x	x		x	x	x											MTU 10V1600 DS560	
	600 ⁽⁴⁾	480	x	x	x					x							x	x	x		x	x	x												MTU 12V1600 DS660
	660 ⁽⁴⁾	528	x	x	x					x							x	x	x		x	x	x												MTU 12V1600 DS730
MTU 2000 DS-G05	770	616	x	x	x					x							x	x	x		x	x	x												MTU 12V2000 DS850
	820	656	x	x	x					x							x	x	x		x	x	x												MTU 12V2000 DS890
	900	720	x	x	x					x							x	x	x		x	x	x												MTU 16V2000 DS1000
	910	728	x	x	x					x							x	x	x		x	x	x												MTU 16V2000 DS1050
	1000	800	x	x	x					x							x	x	x		x	x	x												MTU 16V2000 DS1100
	1030	824	x	x	x					x							x	x	x		x	x	x												MTU 16V2000 DS1140
	1130 ⁽⁵⁾	904	x	x	x					x							x	x	x		x	x	x												MTU 18V2000 DS1250
	1160	928	x	x	x					x							x	x	x		x	x	x												MTU 18V2000 DS1290
MTU 2000 DS-G06	750	600	x	x	x					x			x				x	x	x		x	x	x		x	x									MTU 12V2000 DS825
	800	640	x	x	x					x			x				x	x	x		x	x	x												MTU 12V2000 DS1000
	910	730	x	x	x					x			x				x	x	x		x	x	x												MTU 16V2000 DS1000
	1000	800	x	x	x					x			x				x	x	x		x	x	x												MTU 16V2000 DS1100
	1135	900	x	x	x					x			x				x	x	x		x	x	x												MTU 16V2000 DS1250
	1250	1000	x	x	x	x	x	x	x	x							x	x	x		x	x	x												MTU 18V2000 DS1400
MTU 4000 DS	1550	1240	x	x	x					x							x	x	x		x	x	x												MTU 12V4000 DS1650
	1650	1320	x	x	x					x							x	x	x		x	x	x												MTU 12V4000 DS1750
	1850	1480	x	x	x					x							x	x	x		x	x	x												MTU 12V4000 DS2000
	2100	1680	x	x	x					x							x	x	x		x	x	x												MTU 16V4000 DS2500
	2250	1800	x	x	x					x							x	x	x		x	x	x												MTU 16V4000 DS2500
	2600	2080	x	x	x					x							x	x	x		x	x	x												MTU 20V4000 DS2650
	2850	2280	x	x	x					x							x	x	x		x	x	x												MTU 20V4000 DS3100
	3100	2480	x	x	x					x							x	x	x		x	x	x												MTU 20V4000 DS3200

	Power output ⁽¹⁾		Available voltages							Emissions							Certifications				Perform. class ⁽²⁾		Uptime compl.		Housing		Engine type	Cooling variant ⁽³⁾	Genset type										
	kVA	kWe	220 V	380 V	400 V	415 kV	3,3 kV	10000 V	10500 V	11000 V	Fuel consumption optimized	Exhaust emission optimized acc. TA-Luft	NEA Singapore for ORDE	compliant EPA Tier 2	Exhaust emission EU 97/68 EC Stage II	Exhaust emission EU 97/68 EC Stage IIIA	Exhaust emission EU 97/68 EC Stage IIIA under FLEX program	ISO 8528	CE compliant	NFPA 110	German Grid Code	ISO 8528-5 - G2	ISO 8528-5 - G3	Tier I & Tier II	Tier III & Tier IV	Enclosure	Container												
MTU 0096 DS	34	27	x	x	x	x				x							x	x			x											3029 TFG89	TC only	MTU 3R0096 DS34					
	44	35	x	x	x	x				x							x	x			x												4045 TF280	TC only	MTU 3R0096 DS44				
	55	44	x	x	x	x				x							x	x			x												4045 HF280	TC only	MTU 3R0096 DS55				
MTU 0120 DS	80	64	x	x	x	x									x		x	x		x		x		x										4R 924 G10F	A2A	MTU 4R0120 DS90			
	100	80	x	x	x	x									x		x	x		x		x		x										4R 924 G20F	A2A	MTU 4R0120 DS110			
	125	100	x	x	x	x									x		x	x		x		x		x											4R 924 G30F	A2A	MTU 4R0120 DS140		
	150	120	x	x	x	x									x		x	x		x		x		x											6R 926 G10F	A2A	MTU 6R0120 DS165		
	180	144	x	x	x	x									x		x	x		x		x		x												6R 926 G20F	A2A	MTU 6R0120 DS200	
MTU 1600 DS	200	160	x	x	x	x								x		x			x		x		x		x											6R 926 G30F	A2A	MTU 6R0120 DS220	
	275	220		x	x	x				x	x						x	x		x		x														6R 1600 G10F	A2A	MTU 6R 1600 DS300	
	300	240		x	x	x				x	x						x	x		x		x														6R 1600 G20F	A2A	MTU 6R 1600 DS330	
	365	292		x	x	x				x	x						x	x		x		x														8V 1600 G10F	A2A	MTU 8V 1600 DS400	
	400	320		x	x	x				x	x						x	x		x		x														8V 1600 G20F	A2A	MTU 8V 1600 DS440	
	450	360		x	x	x				x	x						x	x		x		x														10V 1600 G10F	A2A	MTU 10V 1600 DS500	
	500	400		x	x	x				x	x						x	x		x		x															10V 1600 G20F	A2A	MTU 10V 1600 DS550
	590	472		x	x	x				x	x						x	x		x		x															12V 1600 G10F	A2A	MTU 12V 1600 DS650
	650	520		x	x	x				x	x						x	x		x		x															12V 1600 G20F	A2A	MTU 12V 1600 DS715
	MTU 2000 DS	1250	1000		x	x	x	x			x							x	x		x	x		x														18V 2000 G26F	A2A

Power output ⁽¹⁾		Available voltages								Emissions				Certifications				Uptime compliant		Housing		Engine type	Cooling variant ⁽³⁾	Genset type				
kWe	kVA	240 V Dedicated (1 Phase)	240 V Re-connectable (1Ph.)	208 V (3 Phase)	240 V (3 Phase)	380 V (3 Phase)	480 V (3 Phase)	600 V (3 Phase)	4160 V (3 Phase)	12470 V (3 Phase)	13200 V (3 Phase)	13800 V (3 Phase)	EPA Tier 4i	EPA Tier 3	EPA Tier 2	Fuel consumption optimized	ISO 8528	UL2200	NFPA 110	IBC 2012	Tier I & Tier II	Tier III & Tier IV	Enclosure	Container				
27	34	x	x	x	x	x	x	x					x					x	x	x	x	x		x		3029TFG89	TC only	MTU 3R0096 DS30
35	44	x	x	x	x	x	x	x						x				x	x	x	x	x		x		4045TF280	TC only	MTU 4R0113 DS35
40	50	x	x	x	x	x	x	x						x				x	x	x	x	x		x		4045TF280	TC only	MTU 4R0113 DS40
45	56	x	x	x	x	x	x	x						x				x	x	x	x	x		x		4045TF280	TC only	MTU 4R0113 DS50
55	69	x	x	x	x	x	x	x						x				x	x	x	x	x		x		4045HF280	A2A	MTU 4R0113 DS60
80	100	x	x	x	x	x	x	x						x				x	x	x	x	x		x		4045HF285	A2A	MTU 4R0113 DS80
90	113	x	x	x	x	x	x	x						x				x	x	x	x	x		x		4045HF285	A2A	MTU 4R0113 DS100
111	139	x	x	x	x	x	x	x						x				x	x	x	x	x		x		4045HF285	A2A	MTU 4R0113 DS125
135	169	x	x	x	x	x	x	x						x				x	x	x	x	x		x		6068HF285	A2A	MTU 6R0113 DS150
180	225	x	x	x	x	x	x	x						x				x	x	x	x	x		x		6068HF485	A2A	MTU 6R0113 DS180
72	90	x	x	x	x	x	x	x						x				x	x	x		x		x		4R 924 G10S	A2A	MTU 4R0120 DS80
90	113	x	x	x	x	x	x	x						x				x	x	x		x		x		4R 924 G20S	A2A	MTU 4R0120 DS100
111	139	x	x	x	x	x	x	x						x				x	x	x		x		x		4R 924 G30S	A2A	MTU 4R0120 DS125
135	169	x	x	x	x	x	x	x						x				x	x	x		x		x		6R 926 G10S	A2A	MTU 6R0120 DS150
163	204	x	x	x	x	x	x	x						x				x	x	x		x		x		6R 926 G20S	A2A	MTU 6R0120 DS180
180	225	x	x	x	x	x	x	x						x				x	x	x		x		x		6R 926 G30S	A2A	MTU 6R0120 DS200

MTU 0096/0113 DS

MTU 0120 DS

	Power output ⁽¹⁾		Available voltages										Emissions				Certifications				Uptime compliant		Housing		Engine type	Cooling variant ⁽³⁾	Genset type	
	kWe	kVA	240 V Dedicated (1 Phase)	240 V Re-connectable (1Ph.)	208 V (3 Phase)	240 V (3 Phase)	380 V (3 Phase)	480 V (3 Phase)	600 V (3 Phase)	4160 V (3 Phase)	12470 V (3 Phase)	13200 V (3 Phase)	13800 V (3 Phase)	EPA Tier 4i	EPA Tier 3	EPA Tier 2	Fuel consumption optimized	ISO 8528	UL2200	NFPA 110	IBC 2012	Tier I & Tier II	Tier III & Tier IV	Enclosure	Container			
MTU 1600 DS	210	263	x	x	x	x	x	x	x	x	x	x		x				x	x	x	x	x		x		6R 1600 G10S	A2A	MTU 6R 1600 DS230
	230	288	x	x	x	x	x	x	x	x	x	x		x				x	x	x	x	x		x		6R 1600 G10S	A2A	MTU 6R 1600 DS250
	250	313	x	x	x	x	x	x	x	x	x	x		x				x	x	x	x	x		x		6R 1600 G10S	A2A	MTU 6R 1600 DS275
	275	344	x	x	x	x	x	x	x	x	x	x		x				x	x	x	x	x		x		6R 1600 G20S	A2A	MTU 6R 1600 DS300
	325	406	x	x	x	x	x	x	x	x	x	x		x				x	x	x	x	x		x		8V 1600 G10S	A2A	MTU 8V 1600 DS350
	365	456	x	x	x	x	x	x	x	x	x	x		x				x	x	x	x	x		x		8V 1600 G20S	A2A	MTU 8V 1600 DS400
	400	500	x	x	x	x	x	x	x	x	x	x		x				x	x	x	x	x		x		10V 1600 G70S	A2A	MTU 10V 1600 DS450
	450	563	x	x	x	x	x	x	x	x	x	x			x			x	x	x	x	x		x		10V 1600 G20S	A2A	MTU 10V 1600 DS500
	500	625	x	x	x	x	x	x	x	x	x	x			x			x	x	x	x	x		x		12V 1600 G10S	A2A	MTU 12V 1600 DS550
	550	688	x	x	x	x	x	x	x	x	x	x			x			x	x	x	x	x		x		12V 1600 G20S	A2A	MTU 12V 1600 DS600
MTU 2000 DS	615	769	x	x	x	x	x	x	x	x	x			x			x	x	x	x	x		x		12V 2000 G45	W2A	MTU 12V 2000 DS650	
	680	850	x	x	x	x	x	x	x	x	x			x			x	x	x	x	x		x		12V 2000 G85	W2A	MTU 12V 2000 DS750	
	725	906	x	x	x	x	x	x	x	x	x			x			x	x	x	x	x		x		12V 2000 G85	W2A	MTU 12V 2000 DS800	
	800	1000	x	x	x	x	x	x	x	x	x			x			x	x	x	x	x		x		16V 2000 G45	W2A	MTU 16V 2000 DS900	
	900	1125	x	x	x	x	x	x	x	x	x			x			x	x	x	x	x		x		16V 2000 G85	A2A	MTU 16V 2000 DS1000	
1000	1250	x	x	x	x	x	x	x	x	x						x	x	x	x	x		x		18V 2000 B76	A2A	MTU 18V 2000 DS1250		
MTU 4000 DS	1125	1406						x	x	x	x			x			x	x	x	x	x		x		12V 4000 G43	W2A	MTU 12V 4000 DS1250	
	1400	1750						x	x	x	x			x			x	x	x	x	x		x		12V 4000 G43	W2A	MTU 12V 4000 DS1500	
	1600	2000						x	x	x	x			x			x	x	x	x	x		x		12V 4000 G83	W2A	MTU 12V 4000 DS1750	
	1800	2250						x	x	x	x	x	x			x			x	x	x	x		x		16V 4000 G43	W2A	MTU 16V 4000 DS2000
	2045	2556						x	x	x	x	x	x			x			x	x	x	x		x		16V 4000 G83	W2A	MTU 16V 4000 DS2250
	2250	2813						x	x	x	x	x	x			x			x	x	x	x		x		20V 4000 G43	W2A	MTU 20V 4000 DS2500
	2500	3125						x	x	x	x	x	x			x			x	x	x	x		x		20V 4000 G83	W2A	MTU 20V 4000 DS2800
	2800	3500						x	x	x	x	x	x			x			x	x	x	x		x		20V 4000 G83L	W2A	MTU 20V 4000 DS3000

	Power output ⁽¹⁾		Available voltages							Emissions							Certifications				Perform. class ⁽²⁾		Uptime compl.		Housing		Engine type	Cooling variant ⁽³⁾	Genset type								
	kVA	kWe	380 V	400 V	415 V	6300 V	6600 V	10000 V	10500 V	11000 V	Fuel consumption optimized	Exhaust emission optimized acc. TA-Luft	NEA Singapore for ORDE	compliant EPA Tier 2	Exhaust emission EU 97/68 EC Stage II	Exhaust emission EU 97/68 EC Stage IIIA	Exhaust emission EU 97/68 EC Stage IIIA under FLEX program	ISO 8528	CE / IEC	NFPA 110	German Grid Code	ISO 8528-5 - G2	ISO 8528-5 - G3	Tier I & Tier II	Tier III & Tier IV	Enclosure	Container										
MTU 4000 DS	1550	1240	x	x	x			x	x	x							x	x	x	x			x									12V 4000 G23	W2A	MTU 12V 4000 DS1650			
	1650	1320	x	x	x			x	x	x							x	x	x	x			x									12V 4000 G23	W2A	MTU 12V 4000 DS1750			
	1850	1480	x	x	x			x	x	x							x	x	x	x			x										12V 4000 G63	W2A	MTU 12V 4000 DS2000		
	2100	1680	x	x	x			x	x	x							x	x	x	x			x										16V 4000 G23	W2A	MTU 16V 4000 DS2250		
	2250	1800	x	x	x			x	x	x							x	x	x	x			x											16V 4000 G63	W2A	MTU 16V 4000 DS2500	
	2600	2080	x	x	x			x	x	x							x	x	x	x			x												20V 4000 G23	W2A	MTU 20V 4000 DS2650
	2850	2280	x	x	x			x	x	x							x	x	x	x			x												20V 4000 G63	W2A	MTU 20V 4000 DS3100
	3100	2480	x	x	x			x	x	x							x	x	x	x			x												20V 4000 G63L	W2A	MTU 20V 4000 DS3200

MTU 2000 DS

Power output ⁽¹⁾		Available voltages								Emissions						
kVA	kWe	380 V	400 V	415 V	6300 V	6600 V	10000 V	10500 V	11000 V	Fuel consumption optimized	Exhaust emission optimized acc. TA-Luft	NEA Singapore for ORDE	compliant EPA Tier 2	Exhaust emission EU 97/68 EC Stage II	Exhaust emission EU 97/68 EC Stage IIIA	Exhaust emission EU 97/68 EC Stage IIIA under FLEX program
750	600	x	x	x						x						
800	640	x	x	x						x						
1000	800	x	x	x	x	x	x	x	x	x						

Certifications				Perform. class ⁽²⁾		Uptime compl.		Housing		Engine type	Cooling variant ⁽³⁾	Genset type
ISO 8528	CE / IEC	NFPA 110	German Grid Code	ISO 8528-5 - G2	ISO 8528-5 - G3	Tier I & Tier II	Tier III & Tier IV	Enclosure	Container			
x	x	x	x	x	x	x	x	x	x	12V 2000 B26F	A2A	MTU 12V 2000 DS1000
x	x	x	x	x	x	x	x	x	x	16V 2000 B26F	A2A	MTU 16V 2000 DS1250
x	x	x	x	x	x	x	x	x		18V 2000 B26F	A2A	MTU 18V 2000 DS1400

Container – 50 Hz / 1500 rpm

Size	Dimensions			Noise level ⁽⁶⁾ Standard		Noise level ⁽⁶⁾ High	
	Length (mm)	Width (mm)	Height (mm)	dBA @ 1m	dBA @ 7m	dBA @ 1m	dBA @ 7m
MTU 2000 DS	20ft HC	6058	2438	2896	C/F	C/F	C/F
	20ft HC	6058	2438	2896	C/F	C/F	C/F
	20ft HC	6058	2438	2896	C/F	C/F	C/F
	20ft HC	6058	2438	2896	C/F	C/F	C/F
	20ft HC	6058	2438	2896	C/F	C/F	C/F

Fuel tank (option)	Emissions	Genset type
Capacity (l)	CSS certification	
500	x	MTU 12V 2000 DS825
500	x	MTU 12V 2000 DS1000
500	x	MTU 16V 2000 DS1100
500	x	MTU 16V 2000 DS1250
500	x	MTU 18V 2000 DS1400

Enclosures – 50 Hz / 1500 rpm

Length (mm)	Width (mm)	Height (mm)	Noise level ⁽⁶⁾ Standard	Fuel tank (option)	Genset type	
			dBA @ 7m	Capacity (l)		
MTU 0080/0113 DS	2100	957	1349	61.7	100	MTU 4R 0080 DS33
	2100	957	1349	60	100	MTU 4R 0080 DS45
	2300	1050	1458	59.3	130	MTU 4R 0080 DS55
	2750	1100	1760	61.2	288	MTU 4R 0113 DS63
	2750	1100	1760	61.3	288	MTU 4R 0113 DS80
	2750	1100	1760	61.5	288	MTU 4R 0113 DS94
MTU 1600 DS	4100	1600	2200	63	597	MTU 6R 1600 DS300
	4100	1600	2200	63.2	597	MTU 6R 1600 DS330
	4500	1800	2340	62.8	740	MTU 8V 1600 DS400
	4500	1800	2340	62.8	740	MTU 8V 1600 DS440
	4500	1800	2340	62.8	740	MTU 10V 1600 DS500
	4500	1800	2340	62.8	740	MTU 10V 1600 DS560
	5000	2100	2369	72.2	950	MTU 12V 1600 DS660
	5000	2100	2369	74.5	950	MTU 12V 1600 DS730

Length (mm)	Width (mm)	Height (mm)	Noise level ⁽⁶⁾ Standard	Fuel tank (option)	Genset type	
			dBA @ 7m	Capacity (l)		
MTU 2000 DS	C/F	C/F	C/F	900	MTU 12V 2000 DS825	
	C/F	C/F	C/F	900	MTU 12V 2000 DS1000	
	7100	2190	2480	C/F	900	MTU 16V 2000 DS1100
	7100	2190	2480	C/F	900	MTU 16V 2000 DS1250

	Prime Power			Standby Power			Certifications				Genset type
	Level 1 (dBA @ 7m)	Level 2 (dBA @ 7m)	Level 3 (dBA @ 7m)	Level 1 (dBA @ 7m)	Level 2 (dBA @ 7m)	Level 3 (dBA @ 7m)	UL 2200	CSA	ISO 9001:2008	IBC 2012/OSHDP	
MTU 0060/0113 DS	68.2	68.4	60.8	68.8	68.1	59.2	x	x	x		MTU 4R 0060 DS30
	C/F	C/F	C/F	C/F	73.4	66.5	x	x	x		MTU 4R 0113 DS35
	C/F	C/F	C/F	C/F	73.6	65.1	x	x	x		MTU 4R 0113 DS40
	77.6	72	64.3	78.2	71.9	64.7	x	x	x		MTU 4R 0113 DS50
	76.7	70.8	67.4	76.8	71.1	67.8	x	x	x		MTU 4R 0113 DS60
	78.9	75.2	70.9	78.9	75.2	70.9	x	x	x	x	MTU 4R 0113 DS80
	79	74.9	70.9	78.9	75.2	70.9	x	x	x	x	MTU 4R 0113 DS100
	82.5	81.8	71.9	82.8	81.7	72	x	x	x	x	MTU 4R 0113 DS125
	84.3	82.9	73.1	84.5	83	73.4	x	x	x	x	MTU 6R 0113 DS150
	85.1	83	73.9	85.1	83	73.9	x	x	x	x	MTU 6R 0113 DS180
na	na	na	85.1	83	73.7	x	x	x	x	MTU 6R 0113 DS200	
MTU 0120 DS	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	MTU 4R 0120 DS80
	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	MTU 4R 0120 DS100
	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	MTU 4R 0120 DS125
	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	MTU 6R 0120 DS150
	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	MTU 6R 0120 DS180
	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	C/F	MTU 6R 0120 DS200
MTU 1600 DS	79.9	78.7	69.1	80.3	78.8	69.1	x	x	x	x	MTU 6R 1600 DS230
	80.3	78.8	69.7	80.5	78.5	69.2	x	x	x	x	MTU 6R 1600 DS250
	80.5	78.5	69.8	80.9	78.4	69.3	x	x	x	x	MTU 6R 1600 DS275
	80.9	78.4	69.9	81	78.6	69.2	x	x	x	x	MTU 6R 1600 DS300
	85.5	84.2	72.7	85.3	84.3	72.8	x	x	x	x	MTU 8V 1600 DS350
	85.5	84.1	72.8	85.9	84.6	72.9	x	x	x	x	MTU 8V 1600 DS400
	C/F	87.1	C/F	87.6	87.1	75.4	x	x	x	x	MTU 10V 1600 DS450
	87.6	87.1	75.4	87.8	87.1	75.4	x	x	x	x	MTU 10V 1600 DS500
	88.5	86.9	76.1	88.5	86.9	76.5	x	x	x	x	MTU 12V 1600 DS550
	88.3	86.9	76.5	88.5	86.8	76.7	x	x	x	x	MTU 12V 1600 DS600

	Prime Power			Standby Power			Certifications				Genset type
	Level 1 (dBA @ 7m)	Level 2 (dBA @ 7m)	Level 3 (dBA @ 7m)	Level 1 (dBA @ 7m)	Level 2 (dBA @ 7m)	Level 3 (dBA @ 7m)	UL 2200	CSA	ISO 9001:2008	IBC 2012/OSHDPD	
MTU 2000 DS	C/F	C/F	C/F	89	86.4	71.9	x	x	x		MTU 12V 2000 DS650
	C/F	C/F	C/F	89	86.4	71.9	x	x	x		MTU 12V 2000 DS750
	86	82.1	C/F	86.1	82	76	x	x	x		MTU 12V 2000 DS800
	C/F	C/F	C/F	89.5	86.5	80.5	x	x	x		MTU 12V 2000 DS900
	C/F	C/F	C/F	93	91.7	81.5	x	x	x		MTU 12V 2000 DS1000
MTU 4000 DS	C/F	C/F	C/F	C/F	88	75.9	x	x	x		MTU 12V 4000 DS1250
	C/F	C/F	C/F	C/F	89.2	76.2	x	x	x		MTU 12V 4000 DS1500
	C/F	C/F	C/F	C/F	90.2	77.2	x	x	x		MTU 12V 4000 DS1750
	C/F	C/F	C/F	C/F	91.8	84	x	x	x		MTU 16V 4000 DS2000

Power Modules – 50 Hz / 1500 rpm and 60 Hz / 1800 rpm

	Power output ⁽¹⁾		Available voltages				Emissions		Dimensions				Frequency
	kVA	kWe	280 V	400 V	480 V	600 V	Fuel consumption optimized	EPA Tier 2	Size	Length (mm)	Width (mm)	Height (mm)	
MTU 50 Hz	650	520		x			x		20ft HC	6058	2438	2896	50
	1875	1500		x			x		40ft HC	12203	2438	2896	50
	2150	1720		x			x		40ft HC	12203	2438	2896	50
	2375	1900		x			x		40ft HC	12203	2438	2896	50
MTU 60 Hz	550	440	x		x	x		x	20ft HC	6058	2438	2896	60
	2200	1760		x			x		40ft HC	12203	2438	2896	60
	2443	1955		x			x		40ft HC	12203	2438	2896	60
	2700	2160		x			x		40ft HC	12203	2438	2896	60

Applikation	Certifications			Engine type	Cooling variant ⁽³⁾	Genset type		
	Continuous Power	Prime Power	Standby Power				ISO 8528	NFPA 110
x				x	x	12V 1600 G20F	A2A	MTU 12V 1600 DS550
x				x	x	16V 4000 G63	W2A	MTU 16V 4000 DS1955
x				x	x	16V 4000 G63	W2A	MTU 16V 4000 DS1955
			x	x	x	16V 4000 G63	W2A	MTU 16V 4000 DS1955
x				x		12V 1600 G20S	A2A	MTU 12V 1600 DS550
x				x		16V 4000 G83	W2A	MTU 16V 4000 DS1955
x				x		16V 4000 G83	W2A	MTU 16V 4000 DS1955
			x	x		16V 4000 G83	W2A	MTU 16V 4000 DS1955

CLASSIFICATION FOR DATA CENTER CONTINUOUS POWER ACCORDING TO UPTIME INSTITUTE

Tier I

Tier I is composed of a single path for power and cooling distribution, without redundant components, providing 99,67% availability.

Tier II

Tier II is composed of a single path for power and cooling distribution, with redundant components, providing 99,74% availability.

Tier III

Tier III is composed of multiple active power and cooling distribution paths, but only one active path has redundant components and is concurrently maintainable, providing 99,98% availability.

Tier IV

Tier IV is composed of multiple active power and cooling distribution paths, has redundant components and is fault tolerant, providing 99,99% availability.

	Tier I	Tier II	Tier III	Tier IV
Delivery paths	One	One	One Active + One Passive	Two Active
Redundant components	No	Yes	Yes (for active path)	Yes (for two active paths)
Simultaneously maintainable	No	No	Yes	Yes
Fault tolerance (single event)	No	No	No	Yes
Compartmentalisation	No	No	No	Yes
Availability	99,67%	99,74%	99,98%	99,99%
Suitable MTU Onsite Energy application	Standby Power Standby Power with Overload Prime Power Grid Stability Power		Data Center Continuous Power Continuous Power	

For complete definition see <http://uptimeinstitute.com/>

FOOTNOTES

- (1) Power output based on 400V, fuel consumption opt. emission level and standard generator. For arrangements with other emissions, voltages and/or optional generators, ratings may vary. Series 4000 without cooling package.
- (2) Ambient conditions and load application acc. to ISO 8528
- (3) Cooling variants: A2A: air-to-air charge air cooling (TD); W2A: water-to-air charge air cooling (TB)
- (4) Power available up to 32°C intake air temperature / 400m site altitude above sea level
- (5) Power available up to 25°C intake air temperature / 100m site altitude above sea level
- (6) All levels in accordance with European Noise Directive (2000/14/EC)

C/F: Consult factory

Cooling variants:

A2A: air-to-air charge air cooling (TD)

W2A: water-to-air charge air cooling (TB)

Available power for diesel generator sets – 50Hz / 1500 rpm

Standard:

// Site altitude above sea level: 400 m

// Intake air temperature: 40° C

TA-Luft:

// Site altitude above sea level: 100 m

// Intake air temperature: 25° C

NEA Singapore:

// Site altitude above sea level: 100 m

// Intake air temperature: 40° C

Available power for diesel generator sets – 60Hz / 1800 rpm

Standard:

// Site altitude above sea level: 400 m

// Intake air temperature: 25° C

MTU Onsite Energy

A Rolls-Royce Power Systems Brand

www.mtuonsiteenergy.com

www.TST-CO.com