

20' STANDARD CONTAINER

MTU 16V2000 DS: 800 - 1,250 kVA

MTU 18V2000 DS: 1,250 - 1,400 kVA



Optional equipment and finishing shown. Standard may vary.

PRODUCT HIGHLIGHTS

// Benefits

- Standard 20' high cube dimensions
- Plug & play, ready-to-use unit
- Wide standard scope of supply
- Shipping optimized - CSC certified
- Modular design - wide range of options
- Serviceability access - double door access gives ease of serviceability to all components

// **MTU Onsite Energy is a single-source supplier**

// **Global product support**

// Performance Assurance Certification (PAC)

- Engine-generator set tested to ISO 8528-5 for transient response
- Verified product design, quality and performance integrity
- All container systems are prototype and factory tested

// Certifications

- CE certification option
- CSC certified

APPLICATION DATA^①

// Engine

	MTU 16V2000 DS1000	MTU 16V2000 DS1100	MTU 16V2000 DS1250	MTU 18V2000 DS1400
Manufacturer	MTU	MTU	MTU	MTU
Model	16V2000	16V2000	16V2000	18V2000

// Ratings^②

Standby Power: kVA	–	1,090	1,230	1,390
Standby Power with overload: kVA	900	1,000	1,110	1,250
Data Center Continuous Power: kVA	–	1,000	–	1,250
Mission Critical Power: kVA	–	1,000	–	1,250
Prime Power: kVA	900	1,000	1,110	1,250
Grid Stability Power: kVA	–	1,000	–	1,250
Continuous Power: kVA	–	–	790	1,000

// Sound Data

Without Silencer Box, Sound Pressure @1m: dB(A)	97	97	97	97
Without Silencer Box, Sound Pressure @7m: dB(A)	88	88	88	88
With Silencer Box, Sound Pressure @1m: dB(A)	86	86	86	86
With Silencer Box, Sound Pressure @7m: dB(A)	77	77	77	77
With Silencer Box and additional exhaust silencer, Sound Pressure @1m: dB(A)	80	80	80	80
With Silencer Box and additional exhaust silencer, Sound Pressure @7m: dB(A)	71	71	71	71

// Cooling System

Radiator design temperature: °C	50	50	50	50
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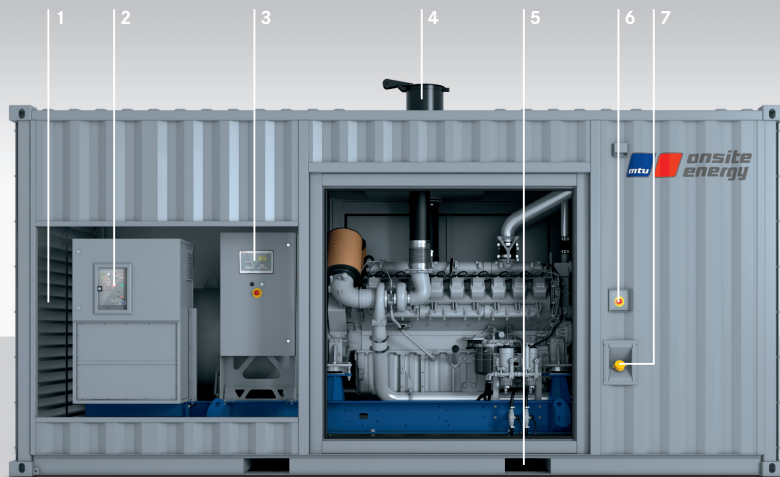
// Generator

Manufacturer	Marathon	Marathon	Marathon	Marathon
Insulation Class	H	H		H
Voltage regulation	± 0.25%	± 0.25%	± 0.25%	± 0.25%

For further technical data please refer to the MTU Diesel Generator set data sheet.

① All data refers only to the engine and is based on ISO standard conditions (25°C and 100m above sea level).

② Rated power refers to ISO standard conditions, 25°C ambient temperature and 100m above sea level – 400V.
Full rated power available up to 45°C ambient temperature and 500m above sea level.



Description of individual components

- 1 Air inlet
- 2 Circuit breaker
- 3 Control system
- 4 Exhaust outlet
- 5 Forklift pocket
- 6 Emergency stop
- 7 Fuel filling for internal tank

STANDARD AND OPTIONAL FEATURES

// Radiator

- Mechanical driven fan (50°C ambient temperature)

// Batterys

- Starterbattery (ready for operation)

// Control Panel

- Island operation (V2 - V6)

// Circuit Breaker

- Circuit breaker mounted on OPU frame

// Exhaust System

- Exhaust silencer
- Exhaust outlet via container roof and flap

STANDARD AND OPTIONAL FEATURES

// Container

- 20' high cube container
- Welded bund
- CSC certificate
- Air outlet via engine/radiator side
- Air inlet via alternator side
- Weather protection grids at air in and outlet

// Access Door

- Double wings doors at each side
- Door handles with panic function

// Lighting System

- 2x 58W fluorescent lamp
- Lighting switch at every access door

// Auxiliary Drives Cabinet

- Lighting system
- Power supply for all electrical equipment

// Fuel System

- External fuel supply (connection interface)

// Paintwork

- Container RAL7035 (light grey)
- Container floor RAL7043 (traffic grey)

// Louverflaps

- Electrically driven louvers

// Sound absorption

- Silencer box for air in and outlet

// Fuel Tank

- 500L single walled fuel tank
- Refilling at container front via pump nozzle

STANDARD AND OPTIONAL FEATURES

// Automatic Tank Refilling

- Control of external fuel transfer pump via dry contacts
- Incl. design approved overfill protection (electrical level sensor)

// Leakage Sensor

- Leakage sensor mounted at container bund

// Coolant preheating

- 2kW/230V incl. thermostat
- 6kW/400V incl. thermostat

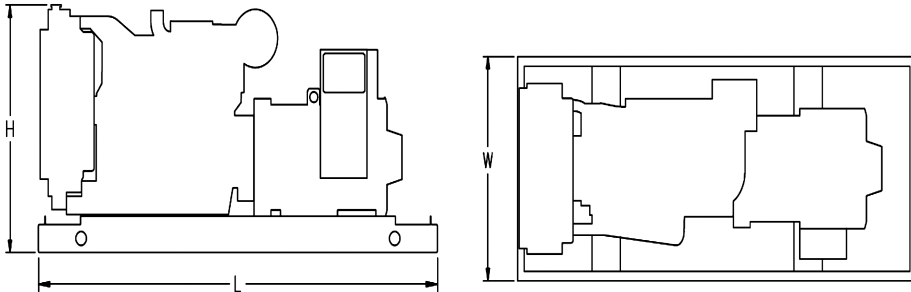
// Fire Extinguisher

- Fire extinguisher 6kg

// Battery Hand Lamp

- Emergency function at supply voltage black out

WEIGHTS AND DIMENSIONS



Outline drawing above is for reference only. Do not use for installation design. For unit-specific template drawings, please see our website.

MTU Onsite Energy Genset Type	Dimensions			Weight	
	Size	Length (mm) ¹⁾	Width (mm)	Height (mm)	kg
MTU 16V 2000 DS1000	20ft HC	6,058	2,438	2,896	13,800
MTU 16V 2000 DS1100	20ft HC	6,058	2,438	2,896	13,800
MTU 16V 2000 DS1250	20ft HC	6,058	2,438	2,896	13,800
MTU 18V 2000 DS1400	20ft HC	6,058	2,438	2,896	14,500

1) additional 500 mm for rain protection, 2x 1750 for silencer box

EMISSIONS DATA

// Consult your local MTU Onsite Energy distributor for emissions data.

RATING DEFINITIONS AND CONDITIONS

- // Standby Power ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. No overload capability for this rating. Ratings are in accordance with ISO 8528-1, ISO-3046-1, BS 5514 and AS 2789. Average load factor: $\leq 85\%$. Operating hours/year: max. 500.
- // Standby Power with Overload ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. A 10% overload capability is available for one hour in twelve. Ratings are in accordance with ISO 8528-1, ISO-3046-1, BS 5514 and AS 2789. Average load factor: $\leq 85\%$. Operating hours/year: max. 500.
- // 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, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO 8528-1, ISO 3046-1, BS 5514 and AS 2789. Average load factor: $\leq 100\%$.
- // Mission Critical Power ratings apply to installations served by a reliable utility source. The rating is applicable to varying loads for the duration of a power outage. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO 8528-1, ISO-3046-1, BS 5514 and AS 2789. Average Load Factor: $\leq 85\%$. Operating hours/year: max. 1,000.
- // 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. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO 8528-1, ISO 3046-1, BS 5514 and AS 2789. Average load factor: $\leq 75\%$. Operating hours/year: unlimited.
- // Grid Stability Power ratings apply to installations serving electric utility programs. At constant or varying load, the number of generator set operating hours is limited to 1,000 hours per year with no more than 500 hours per year at 100% load without interruption. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO 8528-1, ISO-3046-1, BS 5514 and AS 2789. Average Load Factor: ≤ 100 .
- // Continuous Power ratings apply to installations where the generator set serves as utility. At constant load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO 8528-1, ISO 3046-1, BS 5514 and AS 2789. Average load factor: $\leq 100\%$. Operating hours/year: unlimited.
- // Deration factor:
 Altitude: Consult your local MTU Onsite Energy Power Generation distributor for altitude derations.
 Temperature: Consult your local MTU Onsite Energy Power Generation distributor for temperature derations.

Rated power refers to ISO standard conditions 25°C ambient temperature and 100m above sea level.

C/F = Consult Factory/MTU Onsite Energy Distributor
 Materials and specifications subject to change without notice.