DIESEL GENERATOR SET
WATER CHARGE-AIR COOLING

1140kVA/50 Hz/Standby (Fuel-Optimized)
380 - 415V

Optional equipment shown. Standard equipment may vary.

BENEFITS

// Low installation costs
// Best fuel consumption values
// Long maintenance intervals
// Best-in-class reliability and availability
// Lifting vertically or with diagonal pull
// Compact design

SYSTEM RATINGS①

Standby	DS01140D5S	DS01140D5S	DS01140D5S
Voltage (L-L)	**380V**	**400V**	**415V**
Phase	3	3	3
PF	0.8	0.8	0.8
Hz	50	50	50
kW	904	912	840
kVA	1130	1140	1050
Amps	1717	1645	1461
Generator model	575RSL7074	575RSL7074	575RSL7074
Temp rise	150 °C/40 °C	150 °C/40 °C	150 °C/40 °C
Connection	6 LEAD HI WYE	6 LEAD HI WYE	6 LEAD HI WYE

① Power available up to 40°C/400 m

CERTIFICATIONS AND STANDARDS

// Engine-generator set is designed and manufactured in facilities certified to standards ISO 9001:2008 and ISO 14001:2004
// Performance Assurance Certification (PAC)
- Engine-generator set tested according to ISO 8528-5 for transient response
- Verified product design, quality and performance integrity
- All engine systems are type and factory tested

// Power Rating
- Permissible average power output during 24 hours of operation up to 85%

STANDARD EQUIPMENT①

// Engine

Air filters
Oil pump for draining
Full flow oil filters
Closed crankcase ventilation
Jacket water pump
Thermostats
Exhaust manifold – dry
Belt driven radiator fan
Radiator – unit mounted
Electric starting motor – 24V
Governor – electronic isochronous
Base – formed steel
SAE flywheel & bell housing
Charging alternator
Flexible fuel connectors
Flexible exhaust connection

// Generator

NEMA MG1, IEEE and ANSI standards compliance for temperature rise and motor
VDE 0530, IEC 60034-1, BS4999, BS5000, CSA22.2-100, AS 1361
Sustained short circuit current of up to 250% of the rated current for up to 10 seconds
Self-ventilated and drip-proof IP23
Superior voltage waveform
Digital, volts-per-hertz regulator
No load to full load regulation
Brushless alternator with brushless pilot exciter
4 Pole, rotating field
150 °C maximum standby temperature rise
Heavy duty shielded ball bearings with a minimum B-10 life of 40,000 hrs
Flexible coupling
Full amortisseur windings
3-phase voltage sensing
±0.25% voltage regulation
100% of rated load – one step according to NFPA 110
3% maximum harmonic content

① Represents standard product only. Consult Factory/MTU Onsite Energy distributor for additional configurations.

STANDARD FEATURES[1]

- // The engine-generator set complies to G3
- // Engine generator set tested according to ISO 8528-5 for transient response
- // Accepts rated load in one step as per NFPA 110
- // All engine-generator sets are type and factory tested
- // MTU Onsite Energy is a single source supplier
- // Global product support
- // 16V2000 diesel engine (31,84 Liter (1943 cu inch) displacement; 4-stroke)
- // Engine-generator resiliently mounted
- // Complete range of accessories
- // Brushless, rotating field generator (PMG excitation; 250% short circuit capability; 2/3 pitch stator windings)
- // Complete system metering
- // LCD display

APPLICATION DATA

// Engine

Manufacturer	MTU
Model	16V2000G65TB
Type	4-Stroke
Arrangement	16-V
Displacement: L (cu inch)	1.99 (121)
Bore: mm (inch)	130 (5.1)
Stroke: mm (inch)	150 (5.9)
Compression ratio	16:1
Rated speed rpm	1500
Engine Governor	Electronic isochronous
Max power: kWm (bhp)	975 (1307)
Speed regulation	±0.25%
Air filter	Dry

// Lube Oil Capacity

Total oil system: l (gal)	102 (27)

// Electrical

Electric Volts DC	24
Cold cranking amps under -17.8 °C (0 °F)	1000

// Fuel System

Fuel supply connection size	M22x1,5 - 60°/Male
Fuel return connection size	M12x1,5 - 60°/Male
Maximum fuel lift: m (ft)	5 (16)
Recommended fuel	see MTU fluids & lubrication spec.
Total fuel flow: l/hr (gal/hr)	600 (159)

// Fuel Consumption[2]

	gal/hr	l/hr	g/kwh
At 100% of power rating:	62	234	199
At 75% of power rating:	45	172	195
At 50% of power rating:	31	116	198

// Cooling/Radiator System

Water pump capacity: l/min (gpm)	667 (176)
Heat rejection to coolant: kW (BTUM)	395 (22,463)
Heat rejection to after cooler: kW (BTUM)	225 (12,796)
Heat radiated to ambient: kW (BTUM)	45 (2,559)
Engine coolant capacity: l (gal)	130 (34)

// Air Requirements[3]

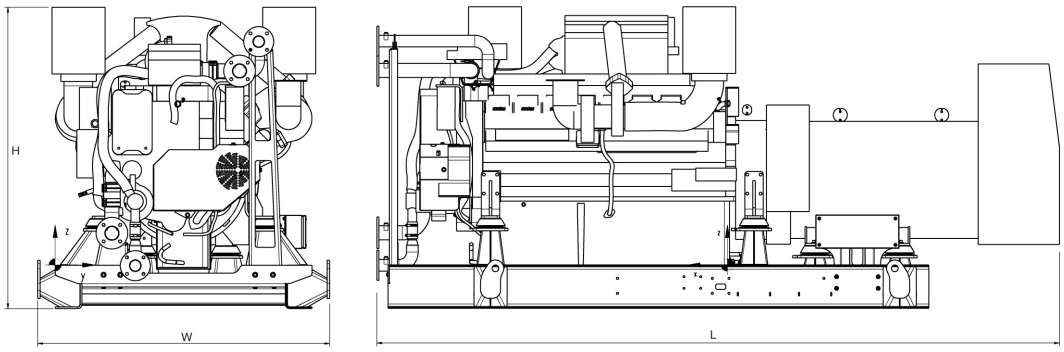
Aspirating: m^3/min (SCFM)	72 (2540)

// Exhaust System

Gas temp. (stack): °C (°F)	565 (1049)
Gas volume flow temp: m^3/min (SCFM)	198 (6991)
Maximum allowable back pressure: kPA	8.5

① Represents standard product only. Consult Factory/MTU Onsite Energy distributor for additional configurations.
② Values in accordance with ISO 3046-1. Conversion calculated with fuel density of 0.83 g/ml.
③ Air density = 1.184 kg/m^3 (0.0739 lbm/ft^3)

WEIGHTS AND DIMENSIONS



Drawing above for illustration purposes only, based an standard open power 400 Volt engine-generator set. Lengths may vary with other voltages. Do not use for installation design. See website for unic specific template drawings.

System	Dimensions (L x W x H)	Weight (dry/less tank)
Open Power Unit (OPU)	4100 x 1750 x 1809 mm (161.4 x 69 x 71.2 inch)	5945 kg (13,106 lbs)

Weights and dimensions are based on open power units and are estimates only. Consult the factory for accurate weights and dimensions for your specific engine-generator set.

SOUND DATA

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

EMISSIONS DATA

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

RATING DEFINITIONS AND CONDITIONS

// Standby 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, ISO3046-1, BS5514, AS 2789 and DIN6271.

// Deration factor:
Altitude: Consult your local MTU Onsite Energy distributor for altitude derations.
Temperature: Consult your local MTU Onsite Energy distributor for temperature derations.

Subject to change. | 3236681 | Edition 01/13 | VMC 2013-06.

Materials and specifications subject to change without notice.

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