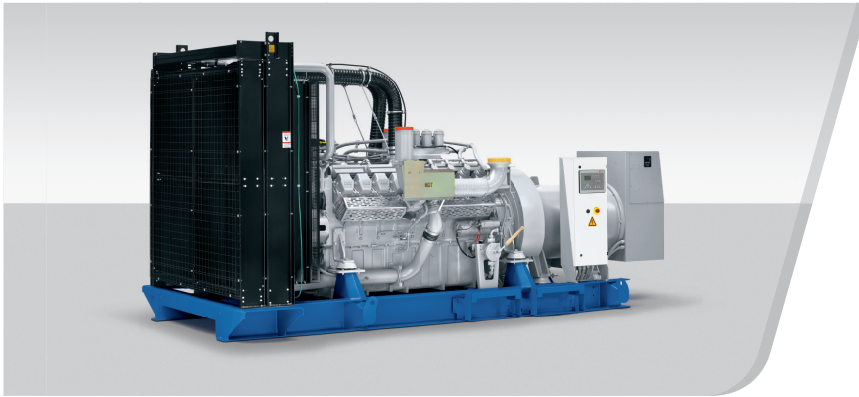


DIESEL GENERATOR SET

AIR CHARGE-AIR COOLING

1120kVA/50 Hz/Prime (TAL)
380 - 415V



Optional equipment shown. Standard equipment may vary.

BENEFITS

- // Industry-leading average load factor
- // Outstanding fuel economy
- // Optimized maintenance intervals
- // Low installation costs
- // Best-in-class reliability and availability
- // Lifting vertically or with diagonal pull
- // Compact design

SYSTEM RATINGS^①

Prime	DP01120D5S	DP01120D5S	DP01120D5S
Voltage (L-L)	380V	400V	415V
Phase	3	3	3
PF	0.8	0.8	0.8
Hz	50	50	50
kW	896	896	896
kVA	1120	1120	1120
Amps	1702	1617	1558
Generator model	740RSL7076	740RSL7076	740RSL7076
Temp rise	125°C/40°C	125°C/40°C	125°C/40°C
Connection	6 LEAD HI WYE	6 LEAD HI WYE	6 LEAD HI WYE

^① Power available up to 25°C/100 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 75%

STANDARD EQUIPMENT^①

// Engine

Air cleaners
 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 1359
 Sustained short circuit current of up to 250%
 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
 125°C maximum prime 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
- // Cooling System (integral set-mounted; engine driven fan)
- // 18V2000 diesel engine (35,82 liter (2186 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	18V2000G65TD
Type	4-Stroke
Arrangement	18-V
Displacement/cylinder: 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)	1000 (1341)
Speed regulation	±0.25%
Air filter	Dry

// Lube Oil Capacity

Total oil system: l (gal)	130 (34)
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// 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)	3 (9,84)
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:	71	270	224
At 75% of power rating:	52	197	218
At 50% of power rating:	35	131	218

// Cooling/Radiator System

Ambient capacity of radiator: °C	32
Max. restriction of cooling air, intake, and discharge side of rad.: kPa (in. H ₂ O)	0,2 (0,803)
Water pump capacity: l/min (gpm)	667 (176)
Heat rejection to coolant: kW (BTUM)	440 (25,022)
Heat rejection to after cooler: kW (BTUM)	300 (17,060)
Heat radiated to ambient: kW (BTUM)	50 (2,843)
Engine coolant capacity: l (gal)	120 (32)
Coolant to cooler temperature: °C (°F)	95 (203)

// Air Requirements^③

Aspirating: m ³ /min (SCFM)	90 (3177)
Air flow required for rad. cooled unit: m ³ /min	1157 (40854)

// Exhaust System

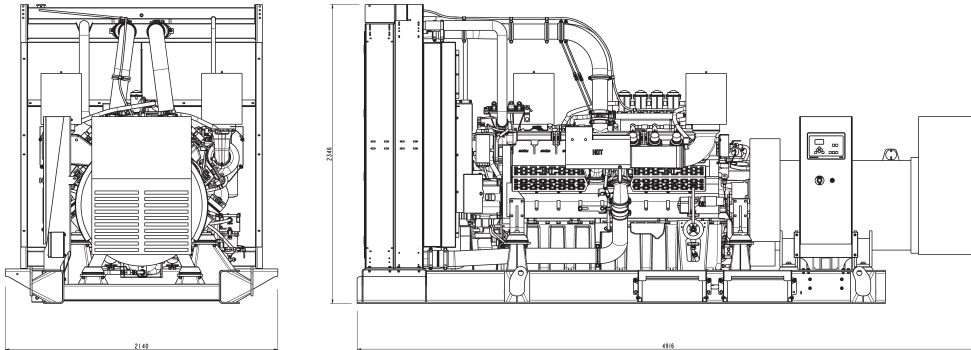
Gas temp. (stack): °C (°F)	540 (1004)
Gas volume flow temp: m ³ /min (SCFM)	246 (8687)
Maximum allowable back pressure: kPa	5

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/m³ (0.0739 lbm/ft³)

WEIGHTS AND DIMENSIONS



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

System

Open Power Unit (OPU)

Dimensions (L x W x H)

4916 x 2140 x 2346 mm (194 x 84 x 92 inch)

Weight (dry)

6920 kg (15,256 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

// 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, overload power in accordance with ISO-3046-1, BS 5514, AS 2789, and DIN 6271. For limited running time and base load ratings, consult the factory.

// Deration factor:

Altitude: Consult your local MTU Onsite Energy distributor for altitude derations.

Temperature: Consult your local MTU Onsite Energy distributor for temperature derations.

Materials and specifications subject to change without notice.