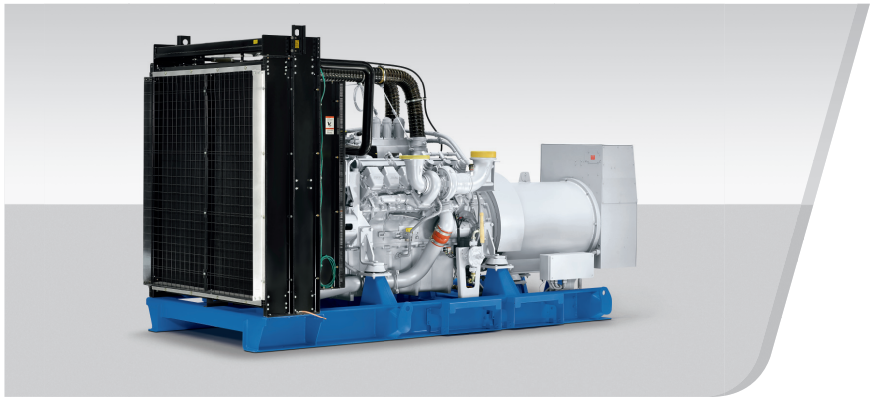
DIESEL GENERATOR SET
AIR CHARGE-AIR COOLING

850kVA/50 Hz/Standby (Fuel-Optimized)
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 RATINGS①

Standby	DS00850D5S	DS00850D5S	DS00850D5S
Voltage (L-L)	**380V**	**400V**	**415V**
Phase	3	3	3
PF	0.8	0.8	0.8
Hz	50	50	50
kW	680	680	664
kVA	850	850	830
Amps	1291	1227	1155
Generator model	574RSL7066	574RSL7066	574RSL7066
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, BS 4999, BS 5000, CSA 22.2-100, AS 1359
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
// Cooling System (integral set-mounted; engine driven fan)
// 12V2000 diesel engine (23,88 liter (1457 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	12V2000G65TD
Type	4-Stroke
Arrangement	12-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)	765 (1026)
Speed regulation	±0.25%
Air filter	Dry

// Lube Oil Capacity

Total oil system: l (gal)	77 (20)

// 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)	480 (127)

// Fuel Consumption[2]

	gal/hr	l/hr	g/kwh
At 100% of power rating:	49	187	203
At 75% of power rating:	37	140	202
At 50% of power rating:	25	96	208

// Cooling/Radiator System

Ambient capacity of radiator: °C	40 (optional 50)[3]
Max. restriction of cooling air, intake, and discharge side of rad.: kPa (in. H_2O)	0,2 (0,803)
Water pump capacity: l/min (gpm)	667 (176)
Heat rejection to coolant: kW (BTUM)	330 (18,767)
Heat rejection to after cooler: kW (BTUM)	160 (9,099)
Heat radiated to ambient: kW (BTUM)	40 (2,275)
Engine coolant capacity: l (gal)	90 (24)
Coolant to cooler temperature: °C (°F)	95 (203)

// Air Requirements[4]

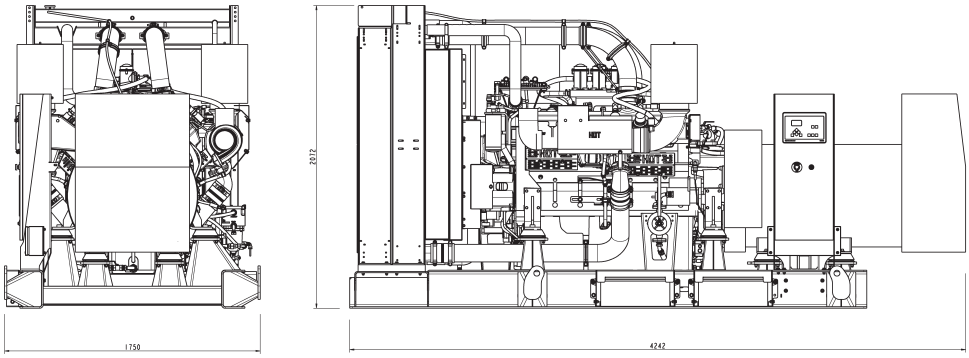
Aspirating: m^3/min (SCFM)	54 (1905)
Air flow required for rad. cooled unit: m^3/min	1698 (59905)

// Exhaust System

Gas temp. (stack): °C (°F)	565 (1049)
Gas volume flow temp: m^3/min (SCFM)	150 (5292)
Maximum allowable back pressure: kPA	8,5 (34)

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 System ratings at 50°C may differ.
④ 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 unit specific template drawings.

System	Dimensions (L x W x H)	Weight (dry)
Open Power Unit (OPU)	4242 x 1750 x 2072 mm (167 x 69 x 82 inch)	5477 kg (12,075 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, ISO 3046-1, BS 5514, AS 2789 and DIN 6271.

// 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. | 3236091 | Edition 01/13 | VMC 2013-06.

Materials and specifications subject to change without notice.

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