DIESEL GENERATOR SET WATER CHARGE-AIR COOLING

890kVA/50 Hz/Standby (Fuel-Optimized) 380 - 415V





Optional equipment shown. Standard equipment may vary.

BENEFITS

- // Low installation costs
- // Superior fuel consumption values
- // Long maintenance intervals

- // Best-in-class reliability and availability
- // Lifting vertically or with diagonal pull
- // Compact design

SYSTEM RATINGS[®]

Standby	DS00890D5S	DS00890D5S	DS00890D5S
Voltage (L-L)	380V	400V	415V
Phase	3	4	3
PF	0.8	0.8	0.8
Hz	50	50	50
kW	704	712	664
kVA	880	890	830
Amps	1337	1285	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

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 EQUIPMENT®

// 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 1359 Sustained short circuit current of up to 250% of the rated current for up to 10 seconds Self-ventilated and drip-proof according to 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

STANDARD FEATURES[®]

- // 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

- // 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	12V2000G65TB
Туре	4-Stroke
Arrangement	12-V
Displacement/cylinder: I (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: I (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: I/hr (gal/hr)	480 (127)	

// Fuel Consumption[®]

	gal/hr	I/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

Water pump capacity: I/min (gpm)	667 (176)
Heat rejection to coolant: kW (BTUM)	305(17,345)
Heat rejection to after cooler: kW (BTUM)	185 (10,521)
Heat radiated to ambient: kW (BTUM)	40 (2,275)
Engine coolant capacity: I (gal)	110 (29)

// Air Requirements®

Aspirating: m ³ /min (SCFM)	54 (1905)

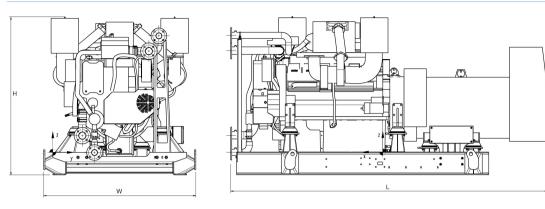
// Exhaust System

Gas temp. (stack): °C (°F)	565 (1049)
Gas volume flow	
temp: m³/min (SCFM)	150 (5277)
Maximum allowable	
back pressure: kPA	8.5

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

³ Air density = 1.184 kg/m³ (0.0739 lbm/ft³)

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.



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.

Materials and specifications subject to change without notice.