TRU2000 natural gas generator set

Specifications

Frequency	Voltage	Prime power	Continuous power
60Hz	AC 277/480V		1000kW/1250kVA
Speed	Noise(Open)	Noise(Container)	
1800rpm	≤110dB（A）@7m	≤95dB（A）@7m	

Standard configuration

♦Electronic governor ECU	♦DC24V Charging generator	♦Radiator, cooling fan
♦Ingress protection rating IP23	♦Insulation class H	♦DeepSea DSE8610 controller
♦Air filter	♦Silencers	♦Battery floating charger
♦Battery pack and connection cable	♦Circuit breaker	♦Forklift slot
♦Package：PE film	♦Vibration damper	♦Generator set usage information

Engine parameters- There are two complete systems in each Container

Engine Brand	Cummins
Engine Model	K50N-G10S
Engine Speed	1800 rpm
Prime power	N/A
Continuous power	1100kW
Bore×Stroke	159×159 mm
Displacement	50.3L
No. of cylinders	16-V type,4 Cycle
Governor type	ECU
Air Intake method	Turbocharged and Aftercooled
Compression Ratio	11.5:1
Start-up method	DC24V electrical start

Gas System

Minimum Fuel Inlet Pressure @ Inlet of GMF Sensor Housing(kPa)	5
Maximum Fuel Inlet Pressure @ Inlet of GMF Sensor Housing(kPa)	20
Maximum Fuel Pressure Variation	+/-1
Acceptable Fuel	Pipeline Quality Natural Gas
Minimum Fuel Methane Number*—MN	80
Minimum Fuel Energy Content*—BTU/scf(MJ/m^3)	800(30)

Gas Consumption(LHV=36MJ/m^3) (m^3/h)				
Continuous power	100% Load	75% Load	50% Load	25% Load
1100kW	285.6	224.6	162.2	102.1

Air Intake system

Maximum Allowable Intake Air Restriction	
with Clean Element (kPa)	3.7
with Dirty Element (kPa)	6.2
Intake Air Flow@100% load COP (L/s)	1381

Cooling system	
Coolant Capacity	
Engine Only(L)	165.5
After-cooler Only(L)	29.2
Thermostat (Modulating) Range (℃)	82-93
Minimum Allowable Pressure Cap @ sea level-(kPa)	48

Lubrication system	
Oil Pressure	
@ Minimum Low Idle (kPa)	138
@ Governed Speed (kPa)	345-483
Maximum Allowable Oil Temperature (℃)	121
Total System Capacity (Including By-Pass Filter) (L)	234.7

Exhaust system	
Max. exhaust back pressure (kPa)	10.0
Exhaust gas temperature@ 100% load COP(℃)	463
Exhaust gas flow @ 100% load COP(L/s)	3200

Alternator parameter

Alternator brand	**Stamford**
Alternator model	S6L1D-F41
Rated output power @480 V (kW/kVA)	1150/1438
No. of bearings	1
Insulation class	H
Voltage Regulation (steady state)	±1%
Ingress protection rating	IP23
Coil pitch	2/3
Connection	Three-phase, four-wire
Excitation method	PMG
Power factor	0.8
Efficiency	0.95
TIF	＜50
THF	＜2%

Control function

Operation function	Power switch, start, stop, emergency stop, closing/opening, parallel connection, etc.
Controller Model	DeepSea DSE8610
Display	4 Line LCD with backlight
Communication	USB, RS485, RS232, Ethernet
Configurable Inputs/Outputs	11/8
Ingress Protection Rating	IP65
Display function	Phase voltage, line voltage, current, frequency, phase sequence, active power, reactive power, apparent power, power factor, accumulated power generation, engine speed, oil pressure, cooling water temperature, running time, accumulated start-up times, battery voltage, etc.

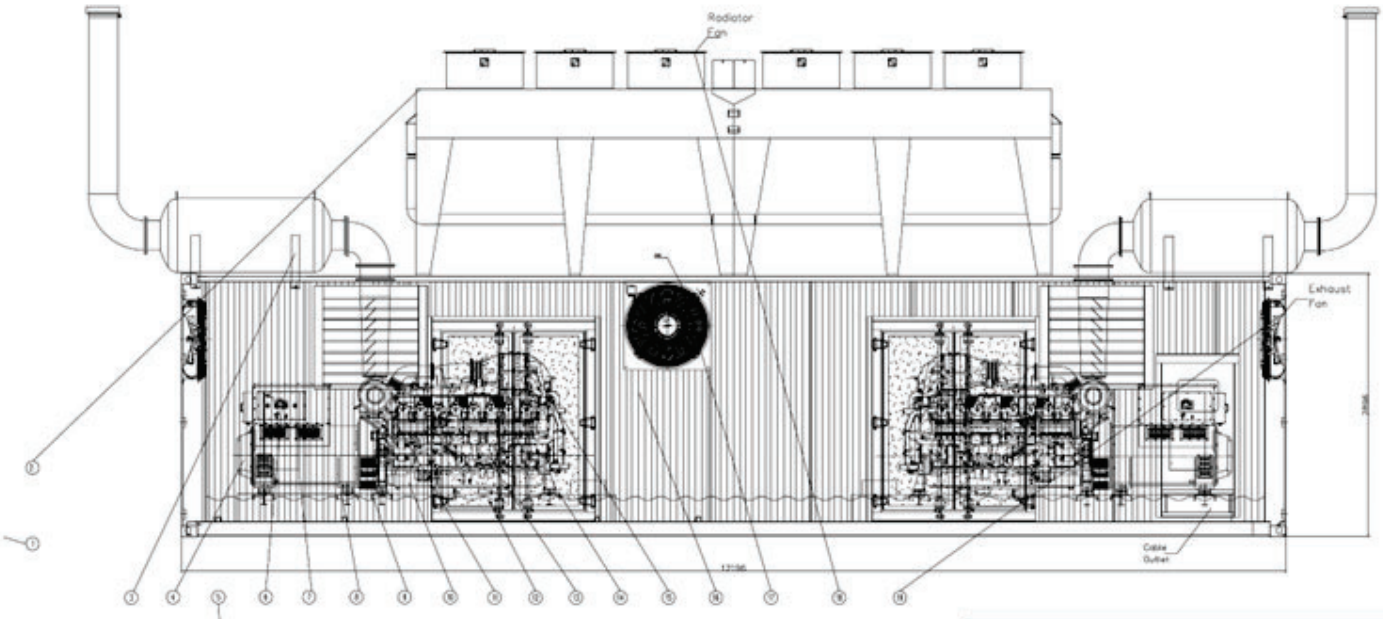
Protective function	Over-speed, under-speed, over-voltage, under-voltage, over-frequency, under-frequency, over-current, over-power, low oil pressure, high water temperature, low battery voltage, charging failure, etc.

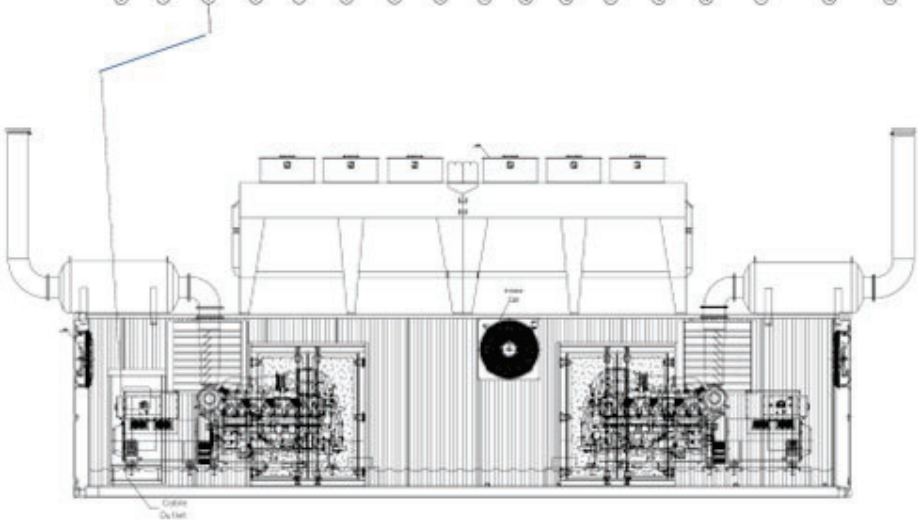
Power Ratings definitions

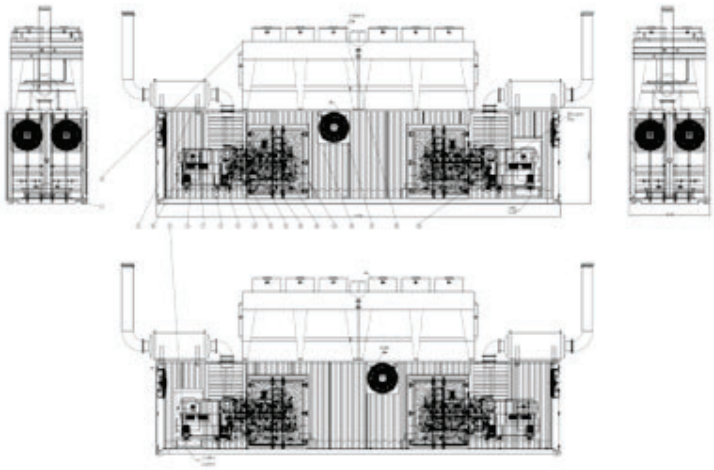
Ratings Definitions	Operating condition
Continuous power(COP)	1. Unlimited using time per year. 2. Continuous power is the maximum power available at a constant load factor. 3. No overload capability is allowed.

Size&Weight

	Length/A	Width/B	Height/C	Weight
40 Foot Container	12192mm/ 40ft	2438mm/ 8ft	2896mm/ 9.5ft	26000kg 5700 lbs







Item	Name
19	Exhaust Fan
18	Radiator Fan
17	Intake Fan
16	40HQ container
15	Intercooler
14	Engine Mounting Angle
13	Water Heater HWP40N
12	Engine Oil Heater
11	Turbocharger
10	Gas Engine K50N-G12
9	High Flexible Coupling
8	Bowl Shock Absorbing Pad
7	Control Cabinet
6	Control Panel
5	Cable Outlet
4	Alternator Stamford, S7L1D-C42
3	Muffler
2	Radiator
1	Base