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GE1000

Image shown might not reflect actual configuration

GE1000

CONTAINERIZED DIESEL GENERATOR SET

This generator set harmoniously combines top-tier components to provide a reliable, efficient, and durable power solution for various applications.

Features

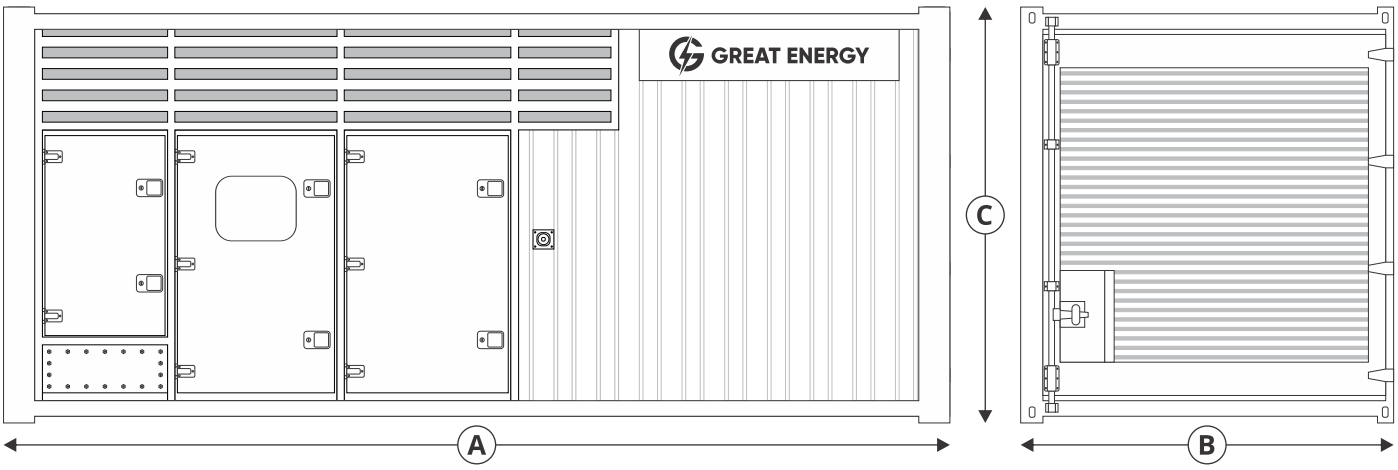
Utilising the world renowned Cummins KTA38 G5 power plant coupled to a Stamford Alternator. Designed to operate in ambient temperatures up to 50°C. The Deepsea 8660 MKII paralleling controller facilitates seamless integration with other power sources, offering precise frequency and voltage regulation, alarm and status displays, and comprehensive system integration. Key features include mains (utility) failure detection, power monitoring, peak lopping, and comprehensive synchronizing and load-sharing capabilities.

Complementing this is the Deepsea 9470 15-amp battery charger, ensuring reliable battery performance and extending service life.

Package

All components are housed within a user-friendly 20-foot container, designed with fork tine pockets and standard container lifting for effortless handling by forklift, crane, or side loader. Put the generator straight to work with the integrated 1200 litre fuel tank, or easily connect a separate fuel tank via the package connections and change over valve provided, to optimize efficiency and reduce downtime

WEIGHT & DIMENSIONS



DIMENSION "A" mm (in)	DIMENSION "B" mm (in)	DIMENSION "C" mm (in)	DRY WEIGHT kg (lb)
6058 (238.5)	2438 (95.98)	2900 (114.17)	13910 (30666.30)

*Weight includes generator set, engine oil and coolant, enclosure and fuel tank (no fuel)

KEEP THE POWER ON

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FUEL CONSUMPTION	STANDBY				PRIME			
	KVA (kW)				KVA (kW)			
RATINGS	1100 (880)				1000 (800)			
LOAD	1/4	1/2	3/4	FULL	1/4	1/2	3/4	FULL
US gph	18.8	32.5	45.2	60.2	17.2	29.9	42.5	55.2
L/hr	71.3	123.1	171	228	65	113	161	209
APPROX. RUN TIME ON PACKAGE FUEL TANK (HOURS)	16.83	9.75	7.02	5.26	18.46	10.62	7.45	5.74

ENGINE	STANDBY RATING	PRIME RATING
ENGINE MANUFACTURER	CUMMINS	
ENGINE MODEL	KTA38 G5	
CONFIGURATION	4 CYCLE, 60° VEE, 12 CYLINDER DIESEL	
ASPIRATION	TURBOCHARGED, AFTERCOOLED	
GROSS ENGINE POWER OUTPUT, kWm	970	881
BMEP AT SET RATED LOAD, kPa	2045	1857
BORE, mm	159 MM (6.25 IN.)	
STROKE, mm	159 MM (6.25 IN.)	
RATED SPEED, rpm	1500	
PISTON SPEED, m/s	7.9	
COMPRESSION RATIO	13.9:1	
LUBE OIL CAPACITY, L	135	
OVERSPEED LIMIT, rpm	1800 ± 50	
REGENERATIVE POWER, kW	82	
GOVERNOR TYPE	MECHANICAL	
STARTING VOLTAGE	24 VOLTS DC	

FUEL FLOW	
MAXIMUM FUEL FLOW, L/Hr	428
MAXIMUM FUEL INLET RESTRICTION, mm Hg	203
MAXIMUM FUEL INLET TEMPERATURE (°C)	71

AIR	
COMBUSTION AIR, m^3/min	67.56
MAXIMUM AIR CLEANER RESTRICTION, kPa	2.98

EXHAUST	STANDBY RATING	PRIME RATING
EXHAUST GAS FLOW AT SET RATED LOAD, m^3/min	198.36	183.06
EXHAUST GAS TEMPERATURE,°C	513	499
MAXIMUM EXHAUST BACK PRESSURE, kPa	10	

STANDARD SET-MOUNTED RADIATOR COOLING		
AMBIENT DESIGN, °C	50	
FAN LOAD, kWe	22	
COOLANT CAPACITY (WITH RADIATOR), L	318	
TOTAL HEAT REJECTION, BTU/min	33800	30680
MAXIMUM COOLING AIR FLOW STATIC RESTRICTION mmH2O	12.69	

CONTROL SYSTEM	
GENERATOR CONTROLLER	DEEPSEA DSE8660 MKII
MAIN CIRCUIT BREAKER	SCHNEIDER MCCB 1600A
BATTERY CHARGER	DEEPSEA 9470 15AMP

ALTERNATOR	
MAKE	STAMFORD AVK
MODEL	S6L1D-F41
VOLTAGE RANGE	380–690 V
STATOR	2/3 PITCH
ROTOR	SINGLE BEARING FLEXIBLE DISC
INSULATION TYPE	H
STANDARD TEMPERATURE RISE	STANDBY 125-163°C
AVR	MX321
POLES	4 POLE (1500RPM)
EXCITER TYPE	PMG
TERMINALS	12
INGRESS PROTECTION	IP23
CONNECTION WITH OTHER MACHINE	PARALLELING CAPABILITY

PACKAGE	
ENCLOSURE	20FT SHIPPING CONTAINER
PAINT	2PAC
SILENCER	INTERNAL BOX TYPE SILENCER
GENERATOR ARRANGEMENT	FRONT IN/END OUT
FUEL TANK	IN BOARD 1200L
FUEL FILTRATION	OEM PLUS PARKER RACOR
PACKAGE VENT FAN LOAD, kWe	7.5

RATING DEFINITIONS

Standby Rating

Generator sets (gensets) are classified based on their intended application and usage patterns. For emergency or backup power, the Standby Rating is applicable. This rating signifies the genset's capacity to supply emergency power during utility outages, operating at variable loads for the duration of the outage. The average load should not exceed 70% of the genset's nameplate capacity. This ensures optimal performance and longevity. Limited to 200 operational hours annually, this limitation accounts for the infrequent use of standby power and helps prevent excessive wear.

Prime Rating

In generator terminology, Prime Power refers to the maximum power available for continuous operation with variable loads over unlimited hours. This rating is suitable for applications where the generator serves as the primary power source, handling fluctuating demands without a defined maximum operating time. While continuous operation is permitted, it's recommended that the average load does not exceed 70% of the generator's PRP rating over any 24-hour period.