



CUMMINS Engine: KTA50-G9 Electronic Governor	Alternator Leroy-somer LSA50.2L8	Generator Model:	TCM1575X (Open)
	Opiond Stamford PI734C Tide TPA404M8		TCM1575XC (Silent)

60Hz 1800 r.p.m	3 Phase 4 Wires	Power Factor: Cos ϕ = 0.8	Emissions Certification:	N/A
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RATINGS	Prime Power		Standby Power		Rated Current	
	<i>(PRP)</i>		<i>(LTP)</i>			
Voltage (V)	kW	kVA	kW	kVA	Amps	
480/277	1260	1575	1500	1875	1894.5	
440/254	1260	1575	1500	1875	2066.7	
416/240	1260	1575	1500	1875	2185.9	
240/138	1260	1575	1500	1875	3789.0	
220/127	1260	1575	1500	1875	4133.4	

RATINGS:

All three Phase generator sets are rated at 0.8 power factor. All single-phase generator sets are rated at 0.8 or 1.0 power factor. **POWERGEN** reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

Prime Power:

Available continuously at variable load in lieu of commercially purchased power for an unlimited number of hours per year in accordance with ISO8528-1, and an overload of 10% permitted for one hour in every twelve hours of operation in accordance with ISO 3046-1.

Standby Power:

Emergency Standby Power in variable load applications in accordance with ISO8528-1 in the event of a utility power failure. No overload available for this service as relevant alternators are peak continuous rated at 27°C.

Standard Features

- ▲ High efficient water cooled diesel engine
- ▲ Brushless alternators (Class H, with AVR.)
- ▲ Heavy duty rubber anti-vibration mountings
- ▲ 12/24V starter batteries and connecting cables
- ▲ Separate engine-drive battery charging alternator
- ▲ Industrial silencer for open type generator sets
- ▲ Residential silencer for open type generator sets
- ▲ Autostart /Digital PowerGen Easycon Control Panel
- ▲ Wiring with IEC standard
- ▲ Factory Test Certificate
- ▲ Operation & Maintenance Manual & Diagrams
- ▲ Worldwide Product / Technical Support
- ▲ Radiator with cap and drain point.
- ▲ Fully guarded engine driven fan
- ▲ No MCCB
- ▲ Oil filter - Diesel filter - Air filter
- ▲ Fully welded steel baseframe with lifting and fork-lifting facilities.
- ▲ Sound proof & Weather protective enclosures for silent type generator sets.

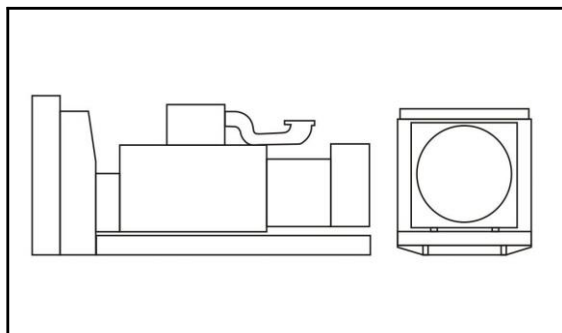
Optional

- △ Automatic Transfer Switch (ATS)
- △ Water - fuel separator
- △ Water heater for severe cold weather
- △ Lub-oil heater for severe cold weather
- △ 50°C-60°C Radiator
- △ Dual wall fuel tank base
- △ Fuel level sensor
- △ Maintenance free battery
- △ Additional **CE Features** Selection
- △ Extra air filters for time-maintenance
- △ Extra diesel filters for time-maintenance
- △ Extra oil filters for time-maintenance
- △ Separated standing fuel tank
- △ Low coolant level sensor
- △ Full range of attachments and options available for alternator
- △ ACB

Overall Dimensions(mm)& Weight(kg)

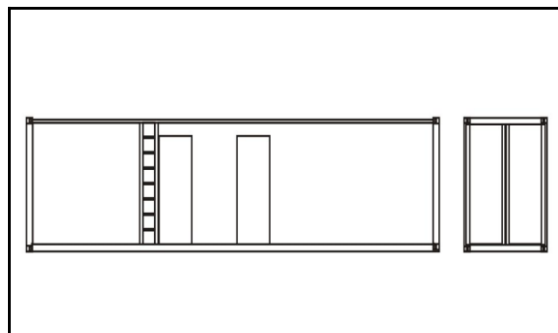
Open Type

Length:
5000
Width:
2200
Height:
2500
Weight:
11000



Silent Type

Length:
12192
Width:
2438
Height:
2591
Weight:
16500



Dimension and design are subject to change without notice.

Warranty

The goods of PowerGen System are under warranty against defects in materials and workmanship for a period of 12 months or 1000 hours whichever comes first from the date of delivery to the end user (except the damageable spare parts of genset caused by incorrect man-made operation), and that the aforementioned warranty for the same token is back up by the engine & alternator manufactures and their global distributors.

Engine Specification

60HZ

General Performance		Lubrication System	
Manufacture	CCEC Cummins	Oil Pan Capacity (High-Low)	178-148 Litres
Engine Model	KTA50-G9	Maximum Oil Temperature	121 °C
Engine Type	4 Cycle, 60° Vee, 16 Cylinder	Maximum Oil Consumption	N/A
Engine Speed	1800 r.p.m	Total System Capacity Including Bypass Filter	204 Litres
Base Output Power	1384kW/1855hp	Fuel System	
Standby Power	1656kW/2220hp	Type Injection System	Direct Injection Cummins PT
Governor Type	Electronic	Fuel Consumption at 100% Standby power	392 Litres/hour
Air Intake Way	Turbocharged & Low Temp. Aftercooled	Fuel Consumption at 100% Prime power	330 Litres/hour
Displacement	50.3L	Fuel Consumption at 75% Prime power	257 Litres/hour
Cylinder Bore * Stroke	159mm × 159mm	Fuel Consumption at 50% Prime power	180 Litres/hour
NO. of Cylinders	16	Fuel Consumption at 25% Prime power	111 Litres/hour
Compression Ratio	13.9:1	Tank Capacity	
Engine Idle Speed	725-775 r/min Fuel	- Open Type Genset	N/A
Piston Speed	9.5 m/s	- Silent Type Gensets	N/A
Intake Air Flow	2075 Litres/sec.	Cooling System	
Air Cleaner Type	Dry	Coolant Capacity - Engine Only	140 Litres

Exhaust System		Cooling System	
Exhaust Gas Flow	5025 Litres/sec.	Standard Thermostat (Modulating) Range	82 - 93 °C
Exhaust Gas Temperature	470 - 515 °C	Maximum Top Tank Temperature	
Maximum Back Pressure	51mm Hg	- Standby Power	104 °C
Exhaust Pipe Size	N/A	- Prime Power	100 °C

Air Intake System		Electric System	
Recommended intake piping size	N/A	Electrical System Voltage	24V
Maximum Intake Air Restriction		Battery	Maintenance-free
- Dirty Element	635mm H ₂ O	Connecting Cables	Available
- Clean Element	381mm H ₂ O	Thermal	

		Radiated Heat to Ambient	170-200kW
		Heat Rejection to Coolant	620-715kW
		Heat Rejection to Exhaust	910-1040kW

Alternator Specification

General Data		60HZ/1800R.P.M	
Manufacture / Brand	Leroy-somer	Prime Output Power	1300kW/1625kVA
Model	LSA50.2L8	Standby Output Power	1428kW/1785kVA
AVR Model	R450	Insulation class	H
Coupling / Bearing	Direct / Single Bearing	Voltage regulation	± 0,5 %
Phase	3 Phase	Total harmonic TGH / THC	<3,5%
Power Factor	Cos ϕ = 0.8	Wave form : NEMA = TIF - (*)	< 50
Winding pitch - Code	2/3 - (N° 6)	Wave form : I.E.C. = THF - (*)	< 2 %
Drip Proof	IP 23	Altitude	≤ 1000 m
Excitation	AREPorPMG	Overspeed	2250min-1

PowerGen comprehensive Easycon range control panels are compact, versatile and easy to use.

Easycon 2.0L/H (GU601A / Deepsea DSE3110) panel is a key-start auto control panel, it’s a basic control panel fits for generators up to 100kVA to provide basic operating parameters display and protection.



Easycon 3.0 L/H (GU641B / Deepsea DSE7210) panel is an auto & digital control panel, it’s an entry level control panel which provides full power monitoring and protection facilities. All operating parameters are with LCD display. (Auto Main Failure Version DSE7220 also Available.)



Easycon 4.0L/H (GU620A / Deepsea DSE7310) panel is an auto & digital & Remote control panel which includes all the features of Easycon 3.0, and plus data communication of full telemetry via the RS232/RS485 interfaces, CANBus is also included. (Auto Main Failure Version DSE7320 also Available.)



Specifications

4 . 0 L / H	3 . 0 L / H	2	Over Speed pre-alarm & shutdown -	Auto Start
		.	Low Oil Pressure Pre-Alarm & shutdown -	Oil Pressure
4 . 0 L / H	3 . 0 L / H	L	High Water Temp. Pre-alarm & shutdown -	Genset Running Hours
		/	Volts, Current, Frequency, Rpm (Instruments)-	Battery Voltage and Charging
4 . 0 L / H	3 . 0 L / H	H	Fuel Sensor as optional -	
		AMF Module as optional -		
			Digital Control Panel -	Switch Opening as Optional
			Overcurrent Pre-alarm -	AMF Module as optional
			Overcurrent Shutdown -	Power Factor
			Prefix Start, Service Indicate, Fault History for Deepsea Module.	
			Remote Start (Data communication of full telemetry via the RS232/RS485)	
			CANBus	

Options

Easycon 5.0H (Deepsea DSE8610) panel fits for Gen-Gen automatic Synchronising and load sharing.

Easycon 6.0H (Deepsea DSE8620) panel fits for Single Gen - Mains automatic Synchronising.

Deepsea DSE7560 Synchronising Controller for Multi gen – Mains Synchronising. This is a separate control unit which enables multiple Easycon 5.0 equipped Gens to be synchronised with the Mains supply.

(For details specifications of Control Panels, please consult our sale department.)

Circuit Breaker

No MCCB-(A CB as optional)

The generators are supplied together with a circuit breaker that permits a thermal protection against overloads and magnetic protection against short-circuit.

Automatic Transfer Switch

A.T.S-4Poles

PowerGen offers not only a changeover switch but also an integrated mains detection and switch system for your 24 Hour Power Protection. The system enables automatic start-up and operation of the generating set in the event of a mains power failure, overvoltage or loss of phase; and also mains automatic re-transfer once it come back.

ATS: Automatically transfer and re-transfer load from main power to gen-power without operator intervention. (Both Automatic and manual operation.)

Please consult our sales department for specifications.



Containerized Enclosure/Canopy

(Sound-attenuated & Weather Protective)

“Ensure a quieter life with our sound attenuation system.”

Features:

Robust Container Design

- ▲ 20ft 40ft (HC also available) ISO footprint
- ▲ Container made from steel components with durable paint system
- ▲ Full banded steel floor and steel louvres
- ▲ Rugged surface - excellent corrosion & rust protection
- ▲ Long service life

Excellent Access for Maintenance

- ▲ Separate & Standing control cabinet at one side
- ▲ Walk around interior with access doors
- ▲ Fully bounded steel floor
- ▲ Anti-explosive light bulb

Transportability

- ▲ ISO shipping dimensioned container
- ▲ Lifting capability

Quiet (Reduce Sound and Vibration)

Noise Level:

≤85-88dBA at 1m

Security and Safety

- ▲ Control panel viewing window in a lockable access door
- ▲ Emergency stop button mounted on canopy exterior
- ▲ Fuel fill and battery can only be reached via lockable access doors
- ▲ Fire extinguisher
- ▲ Exhaust silencing system enclosed for operator safety (residential silencer included)
- ▲ Excellent cooling system to avoid high water temp., reliable operation under harshest conditions.
- ▲ (Ambient temp. upto 40-52°C and altitudes up to 1000M)

Optional

- △ Sockets
- △ Floor Standing MCCB/ACB (> 1250Amp)
- △ Interior Separate fuel tank volume (100-2000L/depends)
- △ Automatic fuel fill-in & cut off system
- △ Exterior Separate fuel tank volume (No limitation, shipped by separate container.)

Please consult actual dimension & weight & freight cost.