



PGCLS1500



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

TPA404M8

60Hz	3 Phase	Power Factor:	Emissions	N/A
1800 r.p.m	4 Wires	Cos = 0.8	Certification:	IV/A

RATINGS	Prime Power		Standby Power		Rated Current	
KATINOS	(P	RP)	(LTP)		(A)	
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 $27^\circ \! \mathbb{C}$.



St and ar dFeat ur es

- ▲ 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 silent type generator sets.
- ▲ 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.

Opt ional

- Automatic Transfer Switch (ATS)
- A Water fuel separator
- Δ Water heater for severe cold weather
- A 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

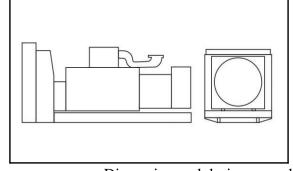
- △Extra air filters for time-maintenance
- ΔExtra diesel filters for time-maintenance
- △Extra oil filters for time-maintenance
- △Separated standing fuel tank
- △Low coolant level sensor
- △Full range of attachments and options available
- for alternator
- ΔACB

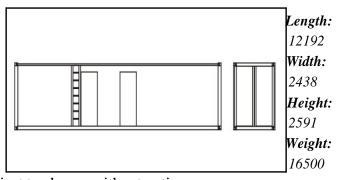
O ver allDimensions(mm)& Weight(kg)

Open Type Silent Type

Length: 5000
Width: 2200
Height: 2500
Weight:

11000





Dimension and design are subject to change without notice.

Warrant y

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.

General Performance		Lubrication System		
Manufacture	CCEC Cummins	Oil Pan Capacity (High-Low)	178-148 Litres	
Engine Model	KTA50-G9	Maximum Oil Temperature	121℃	
Engine Type	4 Cycle, 60° Vee, 16 Cylinder	Maximum Oil Consumption N/A		
Engine Speed	1800 r.p.m	Total System Capacity Including Bypass Fil	ter 204 Litres	
Base Output Power	1384kW/1855hp			
Standby Power	1656kW/2220hp	Fuel System		
Governor Type	Electronic	Type Injection System Direct Inje	ction Cummins PT	
Air Intake Way Turbochar	ged & Low Temp. Aftercooled	Fuel Consumption at 100% Standby powe	r 392 Litres/hour	
Displacement	50.3L	Fuel Consumption at 100% Prime power	330 Litres/hour	
Cylinder Bore * Stroke	159mm × 159mm	Fuel Consumption at 75% Prime power	257 Litres/hour	
NO. of Cylinders	16	Fuel Consumption at 50% Prime power	180 Litres/hour	
Compression Ratio	13.9:1	Fuel Consumption at 25% Prime power	111 Litres/hour	
Engine Idle Speed	725-775 r/min Fuel	Tank Capacity		
Piston Speed	9.5 m/s	- Open Type Genset	N/A	
Intake Air Flow	2075 Litres/sec.	Silent Type Gensets	N/A	
Air Clearner Type	Dry			
		Cooling System		
Exhaust System		Coolant Capacity - Engine Only	140 Litres	
Exhaust Gas Flow Exhaust Gas Temperature	5025 Litres/sec. 470 - 515℃ Maxi	Standard Thermostat (Modulating) Range mum Top Tank Temperature	82 - 93℃	
Maximum Back Pressure		- Standby Power	104℃	
	51mm Hg	- Prime Power	104 € 100°€	
Exhaust Pipe Size	N/A	- Prime Power	100%	
Air Intake System		Electric System		
Recommended intake pipin	g size N/A	Electrical System Voltage	24V	
Maximum Intake Air Restri	·		Maintenance-free	
- Dirty Element		Connecting Cables	Auailable	
- Clean Element	381mm H2O			
		Thermal		
		Radiated Heat to Ambient	170-200kW	
		Heat Rejection to Coolant	620-715kW	

A lt er nat orSp ecificat ion

<u>GeneralData</u>			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	Н
Coupling / Bearing	Direct / Single Bearing	Voltage regulation	\pm 0,5 %
Phase	3 Phase	Total harmonic TGH / THC	<3,5%
Power Factor	Cos = 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	$\leq 1000 \text{ m}$
Excitation	AREPorPMG (Overspeed	2250min-1

POWERGEN EasyconC ontrolSystems

"Letyour Generator always in Control"

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.)



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

Opt ions

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

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.

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

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

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

A ut omat icT r ansferSwit ch

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.



_(S ound-attenuated&WeatherProtectiv

C ont ainer iz edEnclosur e/C anop y

e)

"Ensure a quieter life with our sound attenuation system." Features:

Rob ustCont ainerDesign

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

ExcellentAccessforM aint enance

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

Transp or t ab ilit v

- ▲ISO shipping dimensioned container
- ▲Lifting capability

Quiet (Reduce Sound and V ibration)

Noice Level:

<85-88dBAat1m

Secur it vandSafet v

- ▲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)

Ov t ional

 $\triangle Sockets$

ΔFloor 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.)

Pleaseconsultact uald imension&weight&fr eightcost.