

PGPLS550





PerkinsAlternatorLeroy-somerEngine::LSA47.2L92806C-E18TAG1AOptionalStamford HCISElectronic GovernorTide TPA354S		Alternator Leroy-somer				
		:			Generator	TPE625X (Open)
		HCI544D) Model:			
		Tide TPA354S4		TPE625XC (Silent)		
			-			
60Hz	3	3 Phase Power Factor:		Emissions	N/A	
1800 r.p.m	4	Wires	Cos		Certification:	11/21
			_			
	Prim	Prime Power		v Power	Rated Current	
RATINGS	(PRP)		(LTP)		(A)	
Voltage (V)	kW	kVA	kW	kVA	Amps	
480/277	500	625	550	687	751.8	
440/254	500	625	550	687	820.1	
416/240	500	625	550	687	867.4	
240/138	500	625	550	687	1503.6	
220/127	500	625	550	687	1640.2	

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.

StandardFeatures

- \blacktriangle 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
- \blacktriangle Separate engine-drive battery charging alternator
- \blacktriangle Industrial silencer for open type generator sets
- ▲ Residential silencer for open type generator sets
- ▲ Auto start / Digital Easycon Control Panel
- ▲ Wiring with IEC standard
- ▲ Factory Test Certificate
- ▲ Operation & Maintenance Manual & Diagrams
- ▲ Worldwide Product / Technical Support

- \blacktriangle Radiator with cap and drain point.
- \blacktriangle Fully guarded engine driven fan
- ▲ Circuit Breaker 3 pole (MCCB)
- ▲ Base fuel tank for 6 8 hours running at 100% load
- ▲ Oil filter Diesel filter Air filter

△Extra air filters for time-maintenance

△Extra oil filters for time-maintenance

 \triangle Separated standing fuel tank

 \triangle Low coolant level sensor

for alternator

△Extra diesel filters for time-maintenance

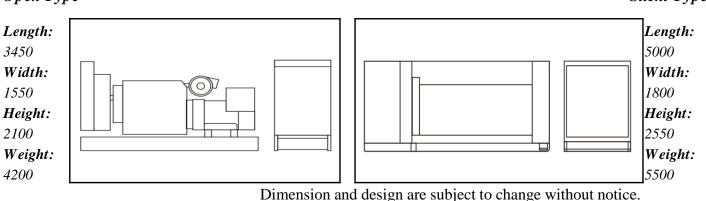
△Full range of attachments and options available

- ▲ Fully welded steel baseframe with lifting and fork-lifting facilities.
- ▲ Sound proof & Weather protective enclosures for silent type generator sets.

<u>Optional</u>

- \triangle Automatic Transfer Switch (ATS)
- \triangle Water fuel separator
- \bigtriangleup Water heater for severe cold weather
- \bigtriangleup Lub-oil heater for severe cold weather
- \triangle 50°C-60°C Radiator
- \triangle Dual wall fuel tank base
- \triangle Fuel level sensor
- \triangle Maintenance free battery
- \triangle Additional CE Features Selection
- OverallDimensions(mm)&Weight(kg)

Open Type



<u>Warranty</u>

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.

Silent Type

EngineSpecification

60HZ

General Performance	~	Lubrication System		
Manufacture	Perkins	Total Lubrication system Capacity	62 Litres	
Engine Model	2806C-E18TAG1A	Minimum Sump Capacity	45 Litres	
		Maximum sump capacity 53 Litres		
Engine Speed	1800 r.p.m	Max Continuous Oil Temperature	113℃	
Prime Power	543kW/729hp			
Standby Power	598kW/802hp	Fuel System		
Governor Type	Electronic		Direct Injection	
Rotation Anti-clockwise Viewed on Flywheel		Fuel Lift Pump-Delivery/hour457 Litres/hour		
Air Intake Way Turbocharged, Air-	to-air charge cooling	Fuel Consumption at 100% Standby power 144 Litres/hour		
Displacement	18.13L	Fuel Consumption at 100% Prime power	130 Litres/hour	
Cylinder Bore * Stroke	$145 mm \times 183 mm$	Fuel Consumption at 75% Prime power	100 Litres/hour	
NO. of Cylinders	6	Fuel Consumption at 50% Prime power	71 Litres/hour	
Compression Ratio	14.5:1 Fue	l Tank Capacity		
Brake Mean Effective Pressure	2087-2290kPa	- Open Type Genset 6 Ho	ours at Full Load	
Combustion Air Flow	45 m³/min	- Silent Type Gensets	780 Litres	
Mean Piston Speed	11 m/s			
Engine coolant flow	7.2 Litres/sec.	Cooling System		
		Total System Coolant Capacity	61 Litres	
Exhaust System		Nominal Jacket Water Pressure in Crankcas	se 280 kPa	
Exhaust Gas Flow	114 m³/min	Pressure Cap Setting	70 kPa	
Exhaust Gas Temperature	487-507℃	Thermostat Operation Range	88-98 ℃	
Maximum Back Pressure	6.9 kPa	Maximum Top Tank Temperature	103℃	
Exhaust Outlet Size (Internal).	202 mm			
		Electric System		
Induction System		Electrical System Voltage	24V	
Maximum Air Intake Restriction		Battery M	aintenance-free	
- Clean Filter	3.7 kPa	Connecting Cables	Auailable	
- Dirty Filter	6.35 kPa			
- Air Filter Type	Paper	Energy balance		
		Energy to Coolant and Lubricating Oil	166-190kW	
		Energy to Exhaust	441-482 kW	
		Energy to Radiation	40-44kW	
AlternatorSpecification				

<u>AlternatorSpecification</u>

GeneralData			60HZ/1800R.P.M
Manufacture / Brand	Leroy-somer	Prime Output Power	529kW/661kVA
Model	LSA47.2L9	Standby Output Power	582kW/728kVA
AVR Model	R250	Insulation Class	Н
Coupling / Bearing	Direct / Single Bearing	Voltage Regulation	\pm 0,5 %
Phase	3 Phase	Total harmonic TGH / THC	no load ${<}1.5\%$ - on load ${<}2\%$
Power Factor	$\cos \mathcal{C} = 0.8$	Wave Form : $NEMA = TIF - 0$	(*) < 50
Winding Pitch - Code	2/3 - (N°6)	Wave Form : I.E.C. = THF -	(*) < 2 %
Drip Proof	IP 23	Altitude	≤ 1000 m
Excitation	Shunt	Overspeed	2250min-1

<u> "LetyourGeneratoralwaysinControl"</u>

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 Over Speed pre-alarm & shutdown -Auto Start 2 Low Oil Pressure Pre-Alarm & shutdown -Oil Pressure . 0 High Water Temp. Pre-alarm & shutdown -Genset Running Hours 3 L Volts, Current, Frequency, Rpm (Instruments)-Battery Voltage and Charging 4 1 0 Fuel Sensor as optional -Н L 0 AMF Module as optional -1 L Digital Control Panel -Switch Opening as Optional Η 1 Overcurrent Pre-alarm -AMF Module as optional Η 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.

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.)



<u>CircuitBreaker</u>

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

<u>AutomaticTransferSwitch</u>



Enclosure/Canopy

operation.)

(Sound-attenuated&WeatherProtective)

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

POWERGEN offers not only a changeover switch but also an

of phase; and also mains automatic re-transfer once it come back.

Please consult our sales department for specifications.

ExtremelyRugged&	SecurityandSafety		
HighlyCorrosionResistantConstruction	▲Earth leakage protection		
▲Body made from 2.0mm sheet steel components	▲40-50mm non-inflammable sponge inside		
with powder coating	▲Control panel viewing window in a lockable access door		
▲8-12 hours built-in fuel tank integrated	▲Emergency stop button mounted on canopy exterior		
into the skid-mount base	▲Fuel fill and battery can only be reached via lockable		
▲Excellent design and craftmanship	access doors		
▲Zinc alloy with black powder coated	▲Exhaust silencing system enclosed for operator safety		
or Bright polished stainless steel hinges tested	▲Excellent cooling system to avoid high water temp.,		
and proven to withstand corrosive conditions.	reliable operation under harshest conditions.		
▲Compact structure and longer service life	▲(Ambient temp.upto 40-52 $^{\circ}$ C and altitudes up to 1000M)		
<u>EasvCommissioningandMaintenance</u>	Transportability		
▲Separate & Standing control cabinet at one side,	▲Lifting points on baseframe		
quick fix electrical power connections.	▲Lifting shelf as optional		
▲Lube oil drain and radiator drain			
▲Side doors allowing 180° opening rotation	Quiet (ReduceSoundandVibration)		
▲Radiator fill access through cover in canopy roof.	Noice Level:		
\triangle Sockets and Lifting shelf as Optional	77-88dBA at 1m & 67-78dBA at 7m		

A.T.S-4Poles