TP400LS

60Hz POWERED BY PERKINS SERIES

TECHNICAL SPECIFICATIONS

DIESEL GENERATING SET 380/220V-60Hz-3Phase

Model	TP400LS	
Power(ESP)	kVA/kw	395/316
Power(PRP)	kVA/kw	357/286
Starter Voltage	V	24
Rated Current	A	600
Rated rotation speed	r/min	1800
Power Factor		0.8
Fuel Consumption	L / h	83.7 L / h
Fuel Tank Capacity	L	Open Type :380 / Silent Type:510
Noise level	dB(A)@7m	

WEIGHT AND DIMENSIONS

GEN-Set	Dimension (L*W*H)	Weight
Open Type		
Silent Type		

STANDARDS:

Genset: GB/T2820—2009,ISO8528

Alternator: LEROY SOMER, TAL-A47-A

Diesel Engine: PERKINS , 1706A-E93TAG1

Standby Power: Continues running at variable load for duration of an emergency. No overload is permitted on these ratings.

Prime Power: Continues running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period.

CONFIGURATION:

Standard: Engine, alternator, cooling system, Base frame (excluding fuel tank), shock absorber, air inlet system, control box (including mains floating charge), plastic fan blades (when the engine and water tank do not bring).

Optional: Base frame (including fuel tank), water jacket heater, fuel water separator, fuel heater, fuel level sensor (only supporting underframe tank), switch box (with switch), power switch, the water level sensor, motor anti condensation heater, automatic fueling system (only supporting base frame including fuel tank), battery frame.

Accessories: Silencer, bellow, exhaust silencing system accessories (with the matching engine), regular battery, starting cord assembly, data of gen-set, random tool (with the matching engine.

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ENGINE Specification

Manufacturer： PERKINS

Model	1706A-E93TAG1
Engine speed Rated	1800 RPM
Cylinder /Arrangement	6/ L
Displacement	9.29L
Bore and Stroke	115 mm ×149 mm
Compression ratio	16.5 **:** 1
Max. stand by power at rated RPM	358.38KW
Frequency regulation , steady state	± 0.25%
Governor : type	Electronic

Exhaust System

Exhaust gas flow	55.49m³L/min
Exhaust temperature	497.9 ℃
Max back pressure	10kPa

Fuel System

Fuel consumption100% (of the Prime Power)	83.7 L / h
Fuel consumption75% (of the Prime Power)	85 L / h
Fuel consumption50% (of the Prime Power)	88.9L / h
Fuel consumption110% (of the Prime Power)	83.3L / h

Oil system

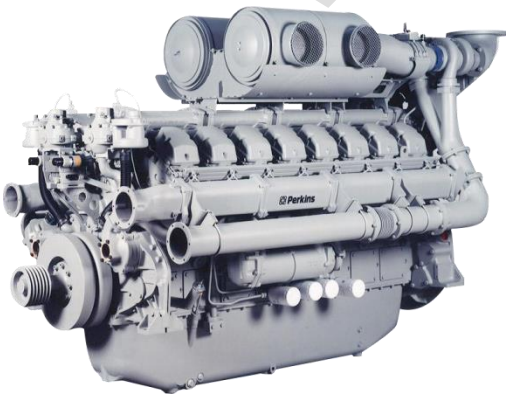
Total oil capacity w/filters	NA

Air intake

Engine air flow	22.44m³/min

Coolant System

Radiator & engine capacity	35.8L
Max water temperature	107 ℃
Thermostat	87-98 ℃



- Perkins engines with fast and reliable cold boost.
- Advanced technology on burning Combustion optimization, low fuel consumption and low noise, emission meets German TALuft standard.
- Reasonable coupling creates best compounding function, provides reliable and high-performance power products.
- Integrated structure of generator with fuel tank and base frame and internal high-efficiency anti-vibration.

Note: All data sheets are for reference only and subject to change without prior notice.

Perkins

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ALTERNATOR Specification

Manufacturer：LEROY SOMER

Type	TAL-A47-A
Number of phase power	3
Factor (Cos Phi)	0.8
Pole	4
Bearing	1
Coupling	Direct
Exciter type	SHUNT
lnsulation : class , temperature rise	H / H
Degree of protection	IP23
AVR model	R150
Altitude	≤1000m
Winding Pitch	2/3
Winding Leads	6/12

FEATURES

•Tight control of procedures right from the initial sales offering through to delivery to the customer, including the design process, manufacturing start-up and production.

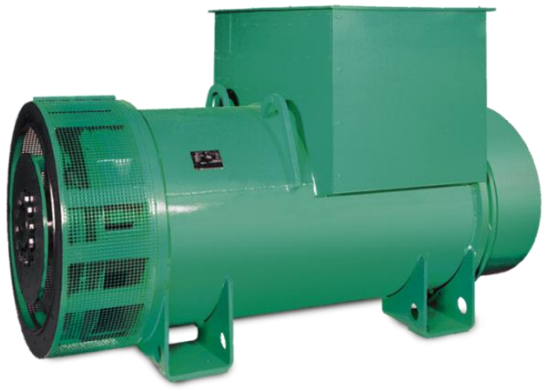
•A total quality policy based on making continuous progress in improving operational procedures, involving all departments in the company in order to give customer satisfaction as regards delivery times, conformity and cost.

•Indicators used to monitor process performance.

•Corrective actions and advancements with tools such as FMECA, QFD, MAVP,

•MSP/MSQ and Hoshin type improvement workshops on flows, process re-engineering, plus Lean Manufacturing and Lean Office.

•Annual surveys, opinion polls and regular visits to customers in order to ascertain and detect their expectations.



STANDARDS

IEC 60034, NEMA MG 1.32 - 33, ISO 8528/3, CSA, UL 1446, UL 1004 on request and depending on voltages, marine.

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Control Panel

Model: SGC 420

SINGLE GENSET CONTROLLERS.

DIMENSIONS

OVERALL
233mm x 173mm x 38.5mm

PANEL CUTOUT
219mm x 158mm

KEY FEATURES

- Auto, manual and remote start/stop modes with night restriction option
- 17 inputs, configurable
- 5 resistive
- 2 analogue I/V
- 1 differential
- 9 digital
- 7 digital outputs, configurable
- Modbus over RS-485
- Manually configurable from the controller front buttons or from a PC using DEIF Smart Connect utility software
- Backlit full graphics LCD with power saving feature for extended battery lifetime
- Supports the battery charging alternator I/O interface
- Supports Auto mode (site battery monitoring, AMF, remote start/stop, auto exercise and cyclic) and manual running modes
- Magnetic Pickup Unit (MPU) interface for engine speed measurement
- Auto exercise mode (2 events) to start and stop the genset for a preconfigured time
- Monitors 1-phase/3-phase voltage, frequency, load current and power factor for generator
- Monitors engine safety parameters like lube oil pressure,engine temperature, fuel level and more
- Monitors telecom site battery backup level and shelter temperature to reduce engine running and fuel consumption at telecom tower sites
- Controls start relay, fuel relay, alarm horn and more as digital outputs
- Event log for 100 events with real time clock (RTC) stamps and engine running hours information
- Counters for engine starts, engine trips, engine running hours, genset and Mains kWh, kVAh, kvarh
- Measures mains kW, kVA
- CANbus for engine communication with support for Stage 5/ Tier 4 Final

KEY FUNCTIONS

- LCD display
- True RMS voltage and current monitoring
- RS-485 base communication
- Monitoring of engine and alternator parameters
- Fully configurable inputs and outputs for a wide range of functions