

### TP550LS

### 60Hz POWERED BY PERKINS SERIES





### TECHNICAL SPECIFICATIONS

#### DIESEL GENERATING SET 220/127V-60Hz-3Phase

Model	TP550LS	
Power(ESP)	kVA/kw	550/440
Power(PRP)	kVA/kw	500/400
Starter Voltage	v	24
Rated Current	A	1443
Rated rotation speed	r/min	1800
Power Factor		0.8
<b>Fuel Consumption</b>	L/h	100L/h
Fuel Tank Capacity	L	Open Type :470 / Silent Type:965
Noise level	dB(A)@7m	≤82

### WEIGHT AND DIMENSIONS

GEN-Set	Dimension ( L*W*H )	Weight
Open Type	3420mm*1190mm*1987mm	3560 Kg
Silent Type	5306mm*1566mm*2585mm	4855 Kg

### **STANDARDS:**

Genset: GB/T2820—2009,ISO8528

Alternator: LEROY SOMER, TAL-A47-A Diesel Engine: PERKINS, 2506C-E15TAG1

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.



# **ENGINE Specification**

Manufacturer: PERKINS			
Model	2506C-E15TAG1		
Engine speed Rated	1800 RPM		
Cylinder /Arrangement	6/ L		
Displacement	15L		
Bore and Stroke	137 mm ×171 mm		
Compression ratio	16: 1		
Max. stand by power at rated RPM	514KW		
Frequency regulation , steady state	± 0.25%		
Governor : type	Electronic		
<b>Exhaust System</b>			
Exhaust gas flow	105.3L/min		
Exhaust temperature	550 ℃		
Max back pressure	6.8kPa		
Fuel System			
Fuel consumption 100% (of the Prime Power)	100L/h		
Fuel consumption75% (of the Prime Power)	<i>77</i> L/h		
Fuel consumption50% (of the Prime Power)	57L/h		
Fuel consumption 110% (of the Prime Power)	114L/h -		
Oil system			
Total oil capacity w/filters	62L		
Air intake			
Engine air flow	38L/min		
Coolant System			
Radiator & engine capacity	58 L		
Max water temperature	107 ℃		
Thermostat	88-98 ℃		



- 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.



# VESTIN® POWER

## **ALTERNATOR Specification**

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