

TP385TS 6

60Hz POWERED BY PERKINS SERIES





TECHNICAL SPECIFICATIONS

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

Model	TP385TS		
Power(ESP)	kVA/kw	385/308	
Power(PRP)	kVA/kw	350/280	
Starter Voltage	V	24	
Rated Current	А	585	
Rated rotation speed	r/min	1800	
Power Factor		0.8	
Fuel Consumption	L/h	77.1L/h	
Fuel Tank Capacity	L	Open Type :380 / Silent Type:510	
Noise level	dB(A)@7m	≤80	

WEIGHT AND DIMENSIONS

GEN-Set	Dimension (L*W*H)	Weight	
Open Type	3150mm*1150mm*1800mm	2800 Kg	
Silent Type	4556mm*1406mm*2250mm	3875 Kg	

STANDARDS:

Genset: GB/T2820-2009,ISO8528

Alternator: STAMFORD, S4L1S-D41

Diesel Engine: PERKINS, 1506A-E88TAG5

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.





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

Model1506A-E88TAG5Engine speed Rated1800 RPMCylinder /Arrangement6/ LDisplacement8.8LBore and Stroke112 mm × 149 mmCompression ratio16.1: 1Max. stand by power at rated RPM358KWFrequency regulation , steady state± 0.25%Governor : typeElectronicExhaust System59.6L/min	
Cylinder /Arrangement 6/ L Displacement 8.8L Bore and Stroke 112 mm × 149 mm Compression ratio 16.1: 1 Max. stand by power at rated RPM 358KW Frequency regulation , steady state ± 0.25% Governor : type Electronic	
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Frequency regulation , steady state ± 0.25% Governor : type Electronic Exhaust System	
Governor : type Electronic Exhaust System Image: Control of the system	
Exhaust System	
Exhaust gas flow 59.6L/min	
Exhaust temperature 512 °C	
Max back pressure 10kPa	
Fuel System	
Fuel consumption100% (of the Prime Power) 77.1L/h	
Fuel consumption75% (of the Prime Power) 56.8L / h	
Fuel consumption50% (of the Prime Power) 38.9L / h	
Fuel consumption110% (of the Prime Power) 85.7L / h	
Oil system	
Total oil capacity w/filters 41L	
Air intake	
Engine air flow 23.6L/min	
Coolant System	
Radiator & engine capacity 33.2 L	
Max water temperature 107 °C	
Thermostat 87-98 °C	



- 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.





ALTERNATOR Specification

Manufacturer: STAMFORD		
Туре	S4L1S-D41	
Number of phase power	3	
Factor (Cos Phi)	0.8	
Pole	4	
Bearing	1	
Coupling	Direct	
Exciter type	Brushless SHUNT	
Insulation : class , temperature rise	H / H	
Degree of protection	IP23	
AVR model	AS440	
Altitude	≤1000m	
Winding Pitch	2/3	
Winding Leads	12	

STAMFORD

FEATURES

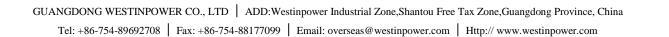
- Utilising wire-wound* (random-wound) technology
- Environment alternators are the industry benchmark for all generator set configurations.
- Brushless excitation with AVR
- IP21, IP22, IP23, IP44 enclosure protection.
- The ideal solution for marine/offshore, UPS, telecoms, basic and advanced protection, construction and other continuous or standby power applications.

STANDARDS

-GB755, BS5000 part three, VDE0530, NEMA MG1-22, IEC-34, CSA C22-100 and AS1359

-All alternators are manufactured in ISO 9001 and ISO 14001 environments.

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Excellent Power Solution



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

