

TP66T

50Hz POWERED BY PERKINS SERIES





TECHNICAL SPECIFICATIONS

DIESEL GENERATING SET 400/230V-50Hz-3Phase

Model	TP66T	
Power(ESP)	kVA/kw	66/53
Power(PRP)	kVA/kw	60/48
Rated Voltage	V	400
Rated Current	A	96
Rated rotation speed	r/min	1500
Power Factor		0.8
Fuel Consumption	Litre/hour	14.6
Fuel Tank Capacity	Litre	Open Type :130 / Silent Type:278
Noise level	dB(A)@7m	Silent Type: 72±2

WEIGHT AND DIMENSIONS

GEN-Set	Dimension (L*W*H)	Weight
Open Type	1765mm*785mm*1256mm	888 Kg
Silent Type	2396mm*1056mm*1723mm	1254 Kg

STANDARDS:

Genset: GB/T2820—2009,ISO8528 Alternator: STAMFORD, S1L2-Y1 Diesel Engine: PERKINS, 1103A-33TG2

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.

Perkins









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	1103A-33TG2		
Engine speed Rated	1500 RPM		
Cylinder /Arrangement	3/L		
Displacement	3.3L		
Bore and Stroke	105 mm ×127 mm		
Compression ratio	17.25:1		
Max. stand by power at rated RPM	60.5KW		
Frequency regulation , steady state	± 0.75%		
Governor: type	Mechanical		
Exhaust System			
Exhaust gas flow	10.4L/min		
Exhaust temperature	571 ℃		
Max back pressure	10kPa		
Fuel System			
Fuel consumption 100% (of the Prime Power)	14.6L/h		
Fuel consumption75% (of the Prime Power)	10.8 L/h		
Fuel consumption50% (of the Prime Power)	7.56L/h		
Fuel consumption25% (of the Prime Power)	4.2 L/h		
Oil system			
Total oil capacity w/filters	8.3 L		
Air intake			
Engine air flow	3.9L/min		
Coolant System			
Radiator & engine capacity	10.2 L		
Max water temperature	110 ℃		
Thermostat	82-93 ℃		



- 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: STAMFORI		
Туре	S1L2-Y1	
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	AS540	
Altitude	≤1000m	
Winding Pitch	2/3	
Winding Leads	12	

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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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