powertech generators

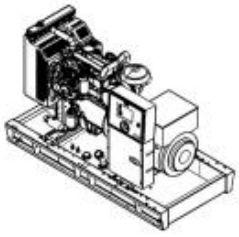
Generator Specialists

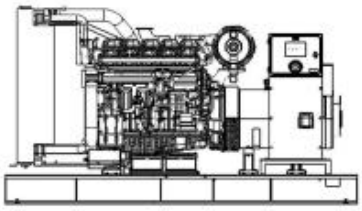
PTG-T50S PE

50Hz / 400V (AC) Diesel Generator Set

Output Power		
Standby Power (ESP)	kVA	50
	kW	40
Prime Power (PRP)	kVA	45
	kW	36

Size	W x L x H (mm)	Weight (kg)	Fuel Tank (lt)	Noise dB(A) @ 7m
Canopied	980 x 2212 x 1566	1130	160	65
Open Skid	950 x 1650 x 1320	830	160	N/A





Continuous Power

The maximum power which a generating set is capable of delivering continuously whilst supplying a constant electrical load. Average load can be 100%. The generator must not be overloaded.

Standby Power

The max power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 hrs of operation per year under average of 70% load. Overloading isn't permissible.

Prime Power

The maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hrs.

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Engine

Manufacturer		PERKINS
Model		1103A-33TG1
Cylinder Configuration		INLINE
No of Cylinders		3
Displacement	lt	3,3
Bore	mm	105
Stroke	mm	127
Compression Ratio		17,25:1
Aspiration		TURBOCHARGE
Governor Type		MECHANIC
Cooling System		WATER
Coolant Capacity	lt	10,2
Lubrication Oil Capacity	lt	7,9
Electrical System	VDC	12
Speed / Frequency 50 Hz	rpm	1500 rpm / 50 Hz
Engine Gross Power (Standby 50 Hz)	kW	46,5
Fuel Consumption %110 ESP 50 Hz	lt/h	12
Fuel Consumption %100 PRP 50 Hz	lt/h	10,7
Fuel Consumption %75 PRP 50 Hz	lt/h	8,2
Fuel Consumption %50 PRP 50 Hz	lt/h	5,7
Exhaust Outlet Temperature 50 Hz	°C	537
Exhaust Gas Flow 50 Hz	m3/min	7,7
Combustion Air Flow 50 Hz	m3/min	3,1
Cooling Air Flow 50 Hz	m3/min	53

Alternator

No of Phases		3
Power Factor		0,8
No of Bearings		SINGLE
No of Poles		4
No of Leads		6-12
Insulation Class		H-F
Degree of Protection		IP 23
Excitation System		AVR (Automatic Voltage Regulator), Brushless

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Control Panel Features-DSE-7320

- 4-Line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- Customisable status screens
- Power save mode
- Support for up to three remote display units
- 9 configurable inputs
- 8 configurable outputs
- Flexible sender inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)
- Tier 4 CAN engine support
- Integral PLC editor
- Easy access diagnostic page
- CAN and Magnetic Pick-up/Alt. sensing
- Fuel usage monitor and low fuel alarms
- Charge alternator failure alarm
- Manual speed control (on compatible CAN engines)
- Manual fuel pump control
- Engine exerciser
- "Protections disabled" feature
- kW & kV Ar protection
- Reverse power (kW & kV Ar) LED and LCD alarm indication
- Power monitoring (kW h, kV Ar, kV A h, kV Ar h)
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer (DSE7320)
- Unbalanced load protection
- Independent Earth Fault trip
- True dual mutual standby with load balancing timer (DSE7310 only)
- USB connectivity
- Backed up real time clock
- Fully configurable via DSE Configuration Suite PC software
- Configurable display languages
- Remote SCADA monitoring via DSE Configuration Suite PC software
- User selectable RS232 and RS485 communications
- Configurable Gencomm pages
- Advanced SMS messaging(additional external modem required)
- Start & stop capability via SMS messaging
- Additional display screens to help with modem diagnostics
- Idle control for starting & stopping.
- DSENet® expansion compatible
- Heated display option available

Functions

- AMF unit
- Remote start controller
- Manuel start controller
- Engine controller
- Remote display & control unit
- CTs at genset or load side

Communications

- Web monitoring
- GSM-SMS (requeired externally modem)
- e-mail
- USB Device
- RS-232
- J1939-CANBUS

Topologies

- 2 phase 3 wires, L1-L2
- 2 phase 3 wires, L1-L3
- 3 phase 3 wires
- 3 phase 4 wires, star
- 3 phase 4 wires, delta
- 1 phase 2 wires

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