

DIESEL GENERATOR SET TP180V

Rating

50HZ

kVA/kW	380V	400V	415V
Prime:	180/144	180/144	180/144
Standby:	200/160	200/160	200/160

60HZ

kVA/kW	220 - 240V	440 - 480V	380V
Prime:	-	-	-
Standby:	215/172	215/172	215/172

DIMENSIONS & WEIGHT

Open

2500 x 1047 x 1466	(mm)
1750	(kg)

Enclosed 75

4400 x 1400 x 2370	(mm)
4250	(kg)

Enclosed 85

4000 x 1400 x 2000	(mm)
2900	(kg)

Features

- CLLS Power provides one-stop service to integrated energy solutions.
- All gensets are tested before leaving our facilities.
- Complete with standard accessories for the convenience of installation.
- Genset comply to Singapore NEA requirements, EU and EPA Standards
- Our generator sets are design to providing dependable power and optimise performance in various applications.
- Covered with One year limited warranty / 1500 running hours upon commissioning /18 months upon site delivery, whichever occurs first.

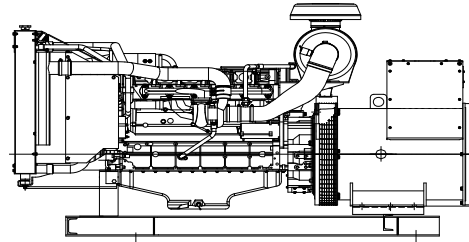
POWER DEFINITION

Prime Power

- Apply to applications where utility power is unstable or unavailable. At Prime rating, the operating hour is unlimited to the annual hours of operation at variable load. 10% overload power for 1 hour in 12 hours.

Standby Power

- Apply to applications where utility power is reliable. In the event of power interruption, standby power is available at variable load up to the designed rating. There is no overload capacity.



	1500rpm	1800rpm
VOLVO TAD732GE		
Prime power (kWm)	159	173
Standby power (kWm)	176	192
Displacement (Litre)		7.2
Bore (mm)		108
Stroke (mm)		130
Formation		In-line
Cylinders		6
Cycle		4.0
Engine electrics (volt)		24
Piston speed(m/s)	6.5	7.8
Mean effective pressure, prime (MPa)	1.8	1.7
Mean effective pressure, standby (MPa)	2.1	1.9
Governor Type		Electronic

AIR CONSUMPTION

Combustion air, prime (m ³ /min)	11.4	14.42
Combustion air, standby (m ³ /min)	12.4	14.42

EXHAUST OUT

Exhaust gas volume, prime (m ³ /min)	31.9	38.3
Exhaust gas volume, standby (m ³ /min)	35.1	41.8
Exhaust backpressure (kPa)	5	7
Exhaust gas temperature, prime (°C)	529	495
Exhaust gas temperature, standby (°C)	542	515

OIL SYSTEM

Oil pressure normal (kPa)	480 -520	
Sump capacity (litre)	34	
Lub oil consumption 100% (l/h)	0.08	0.09

COOLANT SYSTEM

Coolant capacity (litre)	32	
Coolant flow (l/m)	180	216
Radiator air flow (m ³ /min)	234	294
Thermostat (°C)	95	

DIESEL GENERATOR SET **TP180V**

OPTIONAL

Engine

- Heavy Duty Air Filter
- Fuel Water Separator
- Oil Level Maintainer

Cooling System

- Antifreeze 50/50
- Block Heater
- Remote Radiator
- Heat Exchanger

Alternator

- Space Heater
- Droop Kit
- RTD
- PMG

Starting System

- Ni-Cad Batteries
- Plante Batteries

Control Box

- Key Start
- Auto-Start
- AMF
- Synchronizing

Electrical System

- 3P/4P MCCB

Fuel System

- Day Tank - Free Standing
- Day Tank - Sub-base
- Storage Tank

Silencers

- Critical Silencer
- Absorptive Silencer

SERVICE & MAINTANENCE

- Comprehensive maintenance contract available.

CONTACT US

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FUEL CONSUMPTION (l/h)	1500rpm	1800rpm
110% Load	45.9	57.3
100% Load	41.3	52.8
75% Load	31.4	39.6
50% Load	22.4	28.2

HEAT BALANCE (110%)

Heat content fuel (kWm) @ 42.8MJ/kg

To work	176	192
To water	85	96
To convection	18	20
To exhaust	144	167

ALTERNATOR

Type	Brushless	
Insulation	Class H	
Voltage regulation	±1%	
Design	IP23	
Bearing	Single	
Sustained short circuit	300%	
Pitch	2/3	
Efficiency @ 0.8pf,		
100%	92.4%	93.4%
75%	92.6%	93.6%
50%	91.3%	92.3%

OPERATION REQUIREMENTS

Exhaust Flow Rate - Prime (m ³ /min)	31.9	38.3
Exhaust Temperature - Prime(°C)	529	495
Maximum Back Pressure (kPa)	5	7

CONTROLLER OPTIONS

AMF Controller

- Stylish, compact and easy to navigate
- Complete Genset monitoring and protection functions
- History log on event and performance for easy troubleshooting
- kWh monitoring
- Built-in Earth Fault & Over Current protection
- Wide range of communication interfaces

Auto Start

- Monitoring, protection, operational status, fault conditions and metering display on back-lit LCD Screen
- Configuration of parameters
- Robust electronics package
- All set points and I/O's configurable via front panel

Key Start

- All at one glance monitoring
- Direct Access, functional and reliable
- Clear labelling
- Low Maintenance