

DIESEL GENERATOR SET TP700V

Rating

50HZ

kVA/kW	380V	400V	415V
Prime:	700/560	700/560	700/560
Standby:	775/620	775/620	775/620

60HZ

kVA/kW	220 -240V	440 - 480V	380V*
Prime:	---	---	---
Standby:	800/640	800/640	800/640

DIMENSIONS & WEIGHT

Open

3341 X 1390 X 1921	(mm)
4800	(kg)

Enclosed 75

7500 x 1800 x 3110	(mm)
11000	(kg)

Enclosed 85

5800 x 1800 x 2550	(mm)
8200	(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.

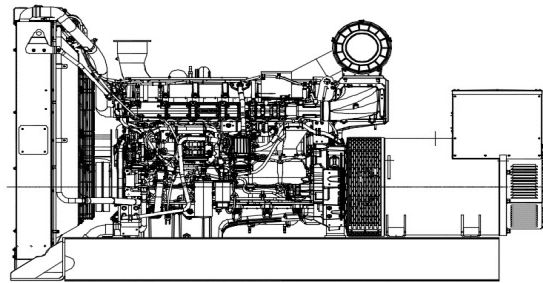
POWER DEFINITION

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 TWD1645GE

Prime power (kWm)	595	619
Standby power (kWm)	654	681
Displacement (Litre)	16.1	
Bore (mm)	144	
Stroke (mm)	165	
Formation	In-line	
Cylinders	6	
Cycle	4	
Engine electrics (volt)	24	
Piston speed (m/s)	8.3	9.9
Mean effective pressure, Prime (MPa)	3.1	2.7
Mean effective pressure, Standby (MPa)	3.4	3
Governor Type	Electronic	

AIR CONSUMPTION

Combustion air, prime (m ³ /min)	41.2	44.5
Combustion air, standby (m ³ /min)	43.53	47.63

EXHAUST OUT

Exhaust gas volume, prime (m ³ /min)	98	107
Exhaust gas volume, standby (m ³ /min)	106	115
Exhaust backpressure (kPa)	9	
Exhaust gas temperature, prime (°C)	470	483
Exhaust gas temperature, standby (°C)	501	497

OIL SYSTEM

Oil pressure normal (kPa)	300-500	
Sump capacity (litre)	48	
Lub oil consumption 100% (l/h)	0.1	0.1

COOLANT SYSTEM

Coolant capacity (litre)	137	
Coolant flow (l/min)	390	486
Radiator air flow (m ³ /min)	684	804
Thermostat (°C)	95	

DIESEL GENERATOR SET TP700V

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	154.1	188.8
100% Load	138.7	172.4
75% Load	107.7	132.1
50% Load	77.9	94.9

HEAT BALANCE (110%)

Heat content fuel (kWm) @ 42.8MJ/kg

To work	654	681
To water	259	247
To convection	26	27
To exhaust	473	513

ALTERNATOR

Type	Brushless	
Insulation	Class H	
Voltage regulation	±1%	
Design	IP23	
Bearing	Single	
Sustained short circuit	300%	
Pitch	2/3	
Efficiency @ 0.8pf,		
100%	95.1%	96.6%
75%	95.3%	96.8%
50%	94.4%	95.6%

OPERATION REQUIREMENTS

Exhaust Flow Rate - Prime (m ³ /min)	98	107
Exhaust Temperature - Prime(°C)	470	483
Maximum Back Pressure (kPa)	9	

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