

DIESEL GENERATOR SET TP500V

Rating			
50HZ			
kVA/kW	380V	400V	415V
Prime:	500/400	500/400	500/400
Standby:	550/440	550/440	550/440
60HZ			
kVA/kW	220 -240V	440 - 480V	380V
Prime:			
Standby:	650/520	650/520	650/520

DIMENSIONS & WEIGHT	
Open	
3140 x 1166x 1887	7 (mm)
3450) (kg)
Enclosed 75	
6000 x 1600 x 3000) (mm
7900) (kg)
Enclosed 85	
4800 x 1600 x 2550) (mm
6500) (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.

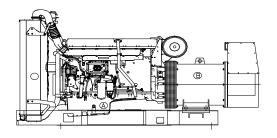
POWER DEFINITION

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 TAD1641GE		
Prime power (kWm)	430	485
Standby power (kWm)	473	546
Displacement (Litre)	16	.1
Bore (mm)	14	14
Stroke (mm) 165		55
Formation	In-line	
Cylinders	6	
Cycle	4	
Engine electrics (volt)	2	4
Piston speed(m/s)	8.3	9.9
Mean effective pressure, prime (MPa)	2.2	2.1
Mean effective pressure, standby (MPa)	2.4	2.3
Governor Type	Elect	ronic

AIR CONSUMPTION		
Combustion air, prime (m³/min)	35.5	44
Combustion air, standby (m³/min)	38	45.8

EXHAUST OUT		
Exhaust gas volume, prime (m³/min)	85	100.6
Exhaust gas volume, standby (m³/min)	92	110.4
Exhaust backpressure (kPa)		10
Exhaust gas temperature, prime (°C)	443	436
Exhaust gas temperature, standby (°C)	455	479

OIL SYSTEM		
Oil pressure normal (kPa)	300-	650
Sump capacity (litre)	4	8
Lub oil consumption 100% (I/h)	0.1	0.11

COOLANT SYSTEM		
Coolant capacity (litre)	61	
Coolant flow (I/m)	384	462
Radiator air flow (m³/min)	546	654
Thermostat (°C)	95	i





DIESEL GENERATOR SET TP500V

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 (I/h)	1500rpm	1800rpm
110% Load	113.6	143.6
100% Load	102.8	133.1
75% Load	76.6	97.5
50% Load	53.1	67.9

HEAT BALANCE (110%)		
Heat content fuel (kWm) @ 42.8MJ/kg		
To work	473	546
To water	184	231
To convection	20	24
To exhaust	356	442

ALTERNATOR		
Туре	Brushless	
Insulation	Class H	
Voltage regulation	±1%	
Design	IP23	
Bearing	Single	
Sustained short circuit	300%	
Pitch	2/3	
Efficiency @ 0.8pf,		
100%	94.2%	95.6%
75%	94.4%	95.8%
50%	93.4% 94.9%	

OPERATRION REQUIREMENTS		
Exhaust Flow Rate - Prime (m³/min)	85	100.6
Exhaust Temperature - Prime(°C)	443	436
Maximum Back Pressure (kPa)	1	0

CONTROLLER OPTIONS

AMF Controller

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

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, funtional and reliable
- Clear labelling
- Low Maintenance

