

## DIESEL GENERATOR SET TP630V

### Rating

#### 50HZ

kVA/kW	380V	400V	415V
Prime:	630/504	630/504	630/504
Standby:	700/560	700/560	700/560

#### 60HZ

kVA/kW	220 -240V	440 - 480V	380V*
Prime:	---	---	---
Standby:	775/620	775/620	750/600

### DIMENSIONS & WEIGHT

#### Open

3318 x 1390 x 1925	(mm)
4250	(kg)

#### Enclosed 75

7000 x 1800 x 3110	(mm)
10000	(kg)

#### Enclosed 85

5600 x 1800 x 2550	(mm)
7500	(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.

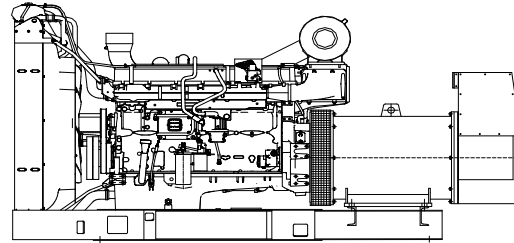
### POWER DEFINITION

#### 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 TWD1643GE

Prime power (kWm)	536	585
Standby power (kWm)	596	644
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)	2.7	2.5
Mean effective pressure, Standby (MPa)	3	2.8
Governor Type		Electronic

### AIR CONSUMPTION

Combustion air, prime (m <sup>3</sup> /min)	43.65	53.07
Combustion air, standby (m <sup>3</sup> /min)	46.96	54.85

### EXHAUST OUT

Exhaust gas volume, prime (m <sup>3</sup> /min)	101.6	119
Exhaust gas volume, standby (m <sup>3</sup> /min)	111.8	130.1
Exhaust backpressure (kPa)		10
Exhaust gas temperature, prime (°C)	450	422
Exhaust gas temperature, standby (°C)	463	461

### OIL SYSTEM

Oil pressure normal (kPa)		300-650
Sump capacity (litre)		48
Lub oil consumption 100% (l/h)	0.10	0.10

### COOLANT SYSTEM

Coolant capacity (litre)		129
Coolant flow (l/min)	288	360
Radiator air flow (m <sup>3</sup> /min)	684	804
Thermostat (°C)		95

## DIESEL GENERATOR SET TP630V

### 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	143.3	170.3
100% Load	129.7	156.3
75% Load	96.6	115.3
50% Load	66.3	80.9

### HEAT BALANCE (110%)

Heat content fuel (kWm) @ 42.8MJ/kg

	1500rpm	1800rpm
To work	596	644
To water	215	245
To convection	26	29
To exhaust	463	530

### ALTERNATOR

Type	Brushless	
Insulation	Class H	
Voltage regulation	±1%	
Design	IP23	
Bearing	Single	
Sustained short circuit	300%	
Pitch	2/3	
Efficiency @ 0.8pf,		
100%	94.3%	96.4%
75%	95.2%	96.6%
50%	95.0%	95.5%

### OPERATION REQUIREMENTS

Exhaust Flow Rate - Prime (m <sup>3</sup> /min)	101.6	119
Exhaust Temperature - Prime(°C)	450	422
Maximum Back Pressure (kPa)	10	

### 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