

DIESEL GENERATOR 500 kVA, INDUSTRIAL

IDEAL USAGE

Projects that require efficient and reliable temporary power, including industrial locations.

APPLICATIONS

- Powering locations where permanent electricity supply is not available - such as temporary accommodation, construction or other remote sites
- Replacing utility power supply to industrial equipment - motors, pumps, conveyors and other equipment
- Additional power for seasonal increases in demand such as manufacturing, distribution and storage



ELECTRICAL

Frequency (Hz)	Phases	Voltage(V)	Prime		Standby		Rated Speed
			kVA	kW	kVA	kW	
50	3	400/230V	500	400	550	440	1500
60	3	480/277V	569	455	625	500	1800

POWER FACTOR

3 Phase	0.8
1 Phase	1

RATINGS

Prime: This rating is for the supply of continuous electrical power, at variable load, in lieu of commercially purchased power. There is no limitation on the hours of operation and 10% over load power can be supplied for 1 hour in 12.

Standby: Standby Power (ESP) is the maximum output available, for up to 500 hours per year, where the load does not exceed 70% of the standby power. Stage IIIA Transition & Stage V models are only emission compliant at 50 Hz Prime Power.

CANOPY

- Lockable Maintenance Access Doors
- Door Stays
- Forklift Protection Bumpers
- Control Panel Viewing Window
- Integral Fork Pockets
- Single Lift Point
- Bundling
- 4 Point Tie Down
- High Density Fire Retardant Foam
- White Paint (RAL 9010)
- Galvanised Steel Canopy

ALTERNATOR HCI 544D

Poles	4
Winding Connections	Star
Insulation	Class H
Encloser	IP23
Exciter System	Self Regulating brushless
Voltage Regulator	AVR
Steady State Voltage Regulator	+/- 1%
Bearing	Single bearing sealed
Coupling	Flexible doc
Cooling	Direct drive centrifugal fan

ENGINE

	1500 RPM	1800 RPM
New Output Rating (PRP)	419 kW	430 kW
Net Output Rating (Standby)	462 kW	473 kW
Manufacturer and Model	Volvo TAD1651GE	
Fuel	Diesel	
Injection	Direct	
Aspiration	Turbo Charged	
Cylinders	6	
Bore and Stroke	144 x 165 mm	
Displacement	16.12 L	
Cooling	Water	
Compression Ration	16.5 : 1	
Engine Oil Specification	JCB EP 15W40	
Engine Oil Capacity	40:00 L	
Coolant Capacity	93.00 L	
Governor	Electronic	
Air Filter	Paper Element	
Engine Oil Consumption	100% 0.1% of fuel consumed	
	Load	
Exhaust Emission After Treatment	None	
Emission Standard	Stage IIIA Transition	

