

Product Name :
Diesel Driven Generator Set Water Cooled**Product Code :**
POWER-GEN0004**Description :**

Diesel Driven Generator Set Water Cooled

Technical Specification :

A complete diesel generator set including the diesel engine, alternator, control panel, automatic starting equipment, fuel tank and all other accessories for autonomous operation

Rates power: 150kVA, 120kW, Power factor (Cos. phi = 0.8), 400/230V, 3-phase, 50 Hz at NTP (Normal Temperature and Pressure)

Engine:

Water-cooled with fresh water loop and tropical radiator

Synchronous speed: Up to 1500rpm

Mechanical speed governor

Heavy duty air cartridge filter

Cartridge oil filter

External fuel filter

Industrial silencer

Exhaust with suitable flexible piping

Automatic electric starter including batteries, leads and automatic battery charging equipment

Alternator:

Synchronous and brushless

Automatic fast voltage regulator, maintaining the output within 2% under normal conditions

Screen protected

Fuel tank:

Fuel tank of suitable construction with capacity sufficient to run the generator set continuously for 8 hours at the rated capacity

Suitable piping should be provided for connecting the tank to the engine as well as for filling the tank

Fuel level indicator should be placed conveniently on the panel board

Panel board:

Made of steel sheets of appropriate thickness subjected to anti-oxidizing treatment and covered with epoxy resin with suitable protection factor

The panel board comprises:

Automatic main circuit breaker

Change over switch with positions for "MAINS" - "OFF" - "GENERATOR"

Key to start and stop the unit

Emergency stop button

Set-point for speed/governor control

Set-point for voltage control

Protection:

The generator set is to be equipped with automatic shutdown equipment if fatal parameters are exceeded including low oil pressure, high engine temperature and over-speed

Mounting:

The engine and the alternator connected with a heavy-duty elastic coupling and should be mounted on a common rigid base frame with anti-vibration dampers and lifting eyes flexible for transportation

Engine, alternator and panel should be one integrated unit mounted on skids

Connection to ground:

The generator is supplied with connection to ground system comprising low resistance rod(s), terminals, cables.



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