

## → Producer

- CATERPILAR

## → Application

- automatic switching of emergency power sources at failures of current
- possible execution in TCD container
- control and monitored by system AMS
- series from 11 to 2400 kW

## → Certificate basis

- BS4999, BS5000, BS5514, IEC34, VDE0530
- electrical construction in accordance with the standards BS5000 part 99, IEC34-1, VDE0530, UTE51100

## → Description/Properties

### Engine

- industrial water cooled diesel engine
- governor, mechanical
- electrical system, 12 VDC
- cartridge type fuel and oil filters
- air filter
- battery(s), rack and cables

### Generator

- self excited brushless generator
- insulation system, class H
- drip proof generator air intake (IP 23)

### Control system

- 1001 keystack control panel
- Vibration isolated sheet steel enclosure with hinged lockable door

### Exhaust system

- heavy duty industrial capacity exhaust silencer (approximately 10 dB reduction) supplied loose

### Cooling system

- standard ambient temperatures up to 50° C (122° F)
- fan, fan drive and charging alternator fully guarded
- antifreeze protection coolant

### Circuit breaker

- 3-pole miniature circuit breaker (mcb) < 160 amps and 3-pole molded case circuit breaker (mccb) >= 160 amps
- vibration isolated sheet steel enclosure with removable cover plate
- outgoing cable stub-up area directly below circuit breaker



### Automatic voltage regulator

- voltage regulation  $\pm 0.5$  %
- provides fast recovery from transient load changes

### Equipment finish

- all electroplated hardware
- anticorrosive paint protection
- high gloss polyurethane paint for durability and scuff resistance

## → Construction

- assembled a robust steel base with hooks for lifting
- anti-vibration pads for the elimination of vibration
- engine is connected to a generator with the help of flexible circular connectors
- basic frame contains a built-plastic fuel tank to ensure that the operation period of 8 hours

chapter:

# 7.5 DIESELGENERATORS



## → DIESEL-GENERATOR SETS

Generator 1,35 kVA	ESE 2000T
Generator 2,8 kVA	ESE 3500T
Generator	ESE 606 HS-GT ES
Generator	ESE 1206 HS-GT ES
Diesel-Generator Set 9,5 kVA	DE9,5
Diesel-Generator Set 13,8 kVA	DE 13,5
Diesel-Generator Set 18 kVA	DE 18
Diesel-Generator Set 22 kVA	DE 22
Diesel-Generator Set 33 kVA	DE 33
Diesel-Generator Set 50 kVA	DE 50
Diesel-Generator Set 55 kVA	DE 55
Diesel-Generator Set 65 kVA	DE 65
Diesel-Generator Set 88 kVA	DE 88
Diesel-Generator Set 110 kVA	DE 110
Diesel-Generator Set 150 kVA	DE 150
Diesel-Generator Set 165 kVA	DE 165
Diesel-Generator Set 200 kVA	DE200
Diesel-Generator Set 220 kVA	DE 220
Diesel-Generator Set 250 kVA	DE 250
Diesel-Generator Set 275 kVA	DE 275
Diesel-Generator Set 300 kVA	GEH 300
Diesel-Generator Set 330 kVA	GEH330
Diesel-Generator Set 300 kVA	3406C
Diesel-Generator Set 350 kVA	3406C
Diesel-Generator Set 400 kVA	C13
Diesel-Generator Set 400 kVA	C 15
Diesel-Generator Set 450 kVA	C 15
Diesel-Generator Set 500 kVA	C 15
Diesel-Generator Set 550 kVA	C 15
Diesel-Generator Set 605 kVA	C 18
Diesel-Generator Set 650 kVA	C 18
Diesel-Generator Set 700 kVA	C 18
Diesel-Generator Set 750 kVA	3412C
Diesel-Generator Set 800 kVA	3412C
Diesel-Generator Set 900 kVA	3412C

## → DIESEL-GENERATOR SETS in building

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