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Prime Model:C225  
Emergency Model:C250E

# DIESEL GENERATOR SET 190V-440V 3P4W

ISO 9001:2000



Standard Features and Characteristics

## Rating Range

		RPM 1500	50Hz
Standby:	KW	200	
	KVA	250	
Prime:	KW	180	
	KVA	225	



## GENERATOR SET RATINGS

Alternator Model	UCD274J(STAMFORD)		N/A(LEROY SOMER)	
Frequency and Speed	50Hz	1500rpm	50Hz	1500rpm

### Prime Power Data

Class-TEMP Rise(°C)	Cont.H -125K/40°C				Cont.H -125K/40°C			
Voltage series star	380	400	415	440	380	400	415	440
Voltage parallel star	190	200	208	220	190	200	208	220
Voltage series delta	220	230	240	254	220	230	240	N/A
Rating capacity(kVA)	230	230	230	N/A	N/A			
Rating power(kW)	184	184	184	N/A				
Power efficiency(%)	92.4	92.6	92.6	N/A				
Input power(kW)	199.1	198.7	198.7	N/A				

### Standby Power Data

Class-TEMP Rise(°C)	Standby.H -150K/40°C				Standby.H -150K/40°C			
Voltage series star	380	400	415	440	380	400	415	440
Voltage parallel star	190	200	208	220	190	200	208	220
Voltage series delta	220	230	240	254	220	230	240	N/A
Rating capacity(kVA)	250	250	250	N/A	N/A			
Rating power(kW)	200	200	200	N/A				
Power efficiency(%)	92.1	92.2	92.3	N/A				
Input power(kW)	217.2	216.9	216.7	N/A				

### ● QUALITY STANDARDS

- The OTC Generator set compliance with all main standards, such as ISO8528 (GB/T2820-97), GB755, BS5000, VDE0530, ISO3046, IEC34-1, CSA22-2, AS1359, ISO14001.
- Diesel engine and alternator OEM authorization certificate and their quality assurance.
- Other standards and certifications can be considered on request.

### ● ASSEMBLY

- The engine and alternator are close coupled by means of an SAE flange . A full torsional analysis has been carried out to guarantee no harmful vibration will occur .
- Anti-vibration pads are affixed between engine alternator feet and the baseframe. Thus ensuring complete vibration isolation of the rotating assemblies and enabling the machine to be placed on an uneven surface without any detrimental effects.
- For durability and corrosion resistance, all iron and steel surfaces of canopy fabrications have been treated for coating by grit blast cleaning. Then covered by a polyester powder paint which provides an excellent corrosion resistant surface.

### ● CONTROL SYSTEM AND PROTECTION

- Controllers are available for all applications. The controller system is used to start and stop the engine , indicate electric date and protect the generator set. See controller features inside.
- The revolving parts are covered by safety net , and the place which easy to scald and got an electric shock all to have the obvious warning slogan

### ● WARRANTY

- OTC Company provides one-source responsibility for the generator set and accessories.
- Each OTC Generating set has been got through 2hours load test for running 0%,25%,50%,75%,100% and 110% load, all protective devices and control function are stimulated and checked before dispatch.
- All equipment is guaranteed for the period of 1000 hours or 12 months from the date of commissioning or 18 months from shipping, whichever occurs first.
- Convenience for operation and maintenance, backed by CUMMNIS ,NEWAGE service global network.

**RATINGS:** All three-phase units are rated at 0.8 power factor. **Standby ratings :** Standby ratings apply to installations served by a reliable utility source. The standby rating is for this rating. Ratings are in according with ISO-3046/1,BS 5514 ,AS 2789 , and DIN 6271 .

**Prime Power Ratings:** Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, overload capacity in accordance with ISO-3046/1,BS 5514, AS 2789, and DIN 6271. For limited running time and base load ratings, consult the factory. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. **GENERAL GUIDELINES FOR DERATION: Altitude:** Derate 2.0% per 300m(984 ft.) elevation above 1000m(3279 ft.) up to a maximum elevation of 2450m(8000 ft.). More than 2450m(8000ft), please contacts with us or our dealer seek the help. **Temperature:** Derate 2.0% per 11 °C (20°F ) temperature above 40°C (104°F ) .

*Specifications May Change Without Notice*

# ALTERNATOR

Specification	RP 500 50H	
T	4-P R F	● A
E	B S	BS EN 600 4
V	S S V H	BS5000 VDE 05 0 NE A G - 2 IEC 4 CSAC22.2- 00
V	≤ .5%	A 5
I	C H	● T 2
P	IP2	2
R	0.8	● B
S	D	● T
W	T	H
W	2	2
S	2250 R	● B
	S	
W	N .5	
A	N -	5.0
	≤ 000	

# DIESEL ENGINE

- 6LTAAB, -G2
- CU INS E C L
- I

DONGFENG

## Engine Electrical

Engine Electrical System	RPM1500 50Hz
B	N
G ( )	24V
V (DC)	70A
A	24V
S (DC)	0.00
	2V

## Application Data

Engine Specifications	RPM1500 50Hz
N	CU INS
C	6
C	V -
I	F
C	6. :
B	4 (4.4 )
S	45 (5.7 )
D	8. (54 .2l )
D	C
F	5 6 2 4
.P	220 W
E ( )	650 ( 4 4 )
S	≤5
F	F
C	D
	7.25 (2 .8 )
I S	850- 50

## Fuel

Fuel System	RPM1500 50Hz
T I S	P7 00 I
T	D
	20. P
	P
F	8 ( 8.25U )
	0 (6.6U )
	70°C
G	E

## Fuel consumption

RPM1500 50Hz				
P				
L ( W. )				
0	00	75	50	25
58 ( )	5 ( 7 )	( 7 )	27(20 )	5(220)

## Exhaust

Exhaust System	RPM1500 50Hz
	0. P ( .02 H )
E ( )	TBA (TBA )
E ( )	470°C

## Turbocharged and Inter-cooling

Turbocharged and Inter-cooling system	RPM1500 50Hz
T	70 P
T	65°C
	25°C
	°C

## Lubrication

Lubrication system	RPM1500 50Hz
N O P	0 P
I S	276-4 4 P
G S	27.6 (58. U )
C	2 °C(250°F)
N	

## Application Data

### Cooling System

**Cooling System 1500RPM 50HZ**

T E O 2.  
R 28.0  
F 60  
T 8 - 5°C  
00 °C (2 2°F)  
P 6 P  
S P P 04 °C (220°F)  
P P 00 °C (2 2°F)

**NOTE:**

A :  
E  
2.E N .2-D AST D 75.  
ISO 046 P S R C  
B P : 00 P (2 .5 H )  
A T : 25 °C (77°F)  
A : 0 (6 )  
R H : 0  
A I R : 254 H<sub>2</sub>O (0 H<sub>2</sub>O)  
E R : 5 H (2 H )

TBA: T B D

## DSE 704 AMF CONTROLLER



T DSE704 A F .I  
.T  
AINS .T ATS  
O STOP ANUAL AUTO

**Panel introduction:**

- I
- T
- T
- T
- P

**Protection:**

O S S  
L O P S  
H E T S  
C

O U P  
DC Supply: 8 5 V C

## CONTROLLERS

### DSE 702 MANUAL CONTROLLER



T 702 E C

T

LED

**Panel introduction:**

- I
- T
- T
- T
- T A LCD
- I

**Protection:**

L O P  
H E T  
A S  
O

DC Supply: 8 5 V C

### PCRC210/220 INTELLIGENT CONTROL SYSTEM



T A F25 A F .T  
LCD .T  
LED

**Panel introduction:**

- I
- T
- T

**Function:**

- C : RS2 2  
ODBUS
- D : LCD
- S : E PC 6
- P : T

● C F ATS.  
DC Supply: 8 5 V C

# Standard Features and Accessories

## Standard Features

- Battery, Battery Rack and Battery Cables
- Integral Vibration Isolation
- Oil Drain Extension
- Air cleaner ,Heavy Duty
- 3 Pole Circuit Breaker
- Heavy duty industrial type exhaust silencer with flexible pipe(supplied loose).

### Maintenance and Literature

- General Maintenance Literature Kit
- Test Certificate and design paper
- Quality certificate and Maintenance card

## Accessories

### Enclosed Unit

- Sound Enclosure
- Weather Enclosure (with enclosed critical silencer)
- Weather Housing (with roof-mounted critical silencer)
- Trailer(Causes the genset easily to move)

### Open Unit

- Exhaust Silencer, Critical kit
- Flexible Exhaust Connector, Stainless Steel

### Cooling System

- Block Heater (recommended for ambient temperatures below 0°C)
- Radiator Duct Flange
- Remote Radiator Cooling

### Fuel System

- Auxiliary Fuel Pump
- Flexible Fuel Lines
- Mechanical dipstick or fuel level sensor
- Subbase Fuel Tank with Day Tank
- Fuel fill cap with breather
- 10 hours running tank
- Automatic fuel--providing device
- Hand primer pump

### Electrical System

- Battery Charger, Equalize/Float Type

### Engine and Alternator

- 3 or 4 Pole Circuit Breaker with Shunt Trip
- Fuel/Water Separator
- Oil Preheater
- Air Preheater
- Alternator Strip Heater

### Maintenance and Literature

- Maintenance Kit (includes air, oil, and fuel filters)
- Overhaul Literature Kit

## Paralleling System

- Reactive Droop Compensator
- Voltage Adjust Control
- Voltage Regulator Relocation Kit

## Controller System

- Common Failure Relay Kit
- Customer Connection Kit(Except Open Style)
- Communications Products and PC Software
- Engine Pre-alarm Sender Kit
- Remote Annunciator Panel
- Remote Audiovisual Alarm Panel
- Remote Emergency Stop Kit
- PCRC series control system, with RS232 or RS485 communication connection and communication agreement.

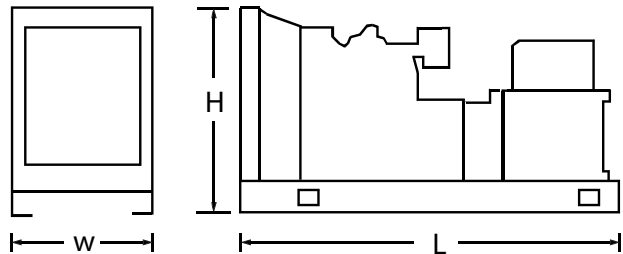
## Miscellaneous Accessories

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- \_\_\_\_\_
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- \_\_\_\_\_

## Dimensions and Weights

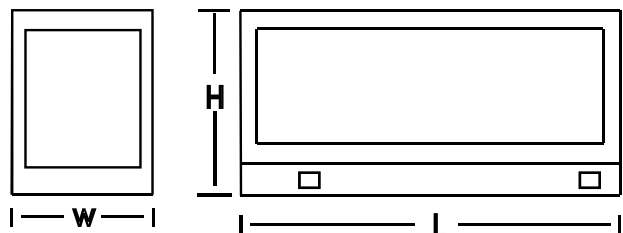
### Open Style

Overall Size, L×W×H, mm	2740×860×1625
Weight(radiator model),net,Kg	1700Kg



### Soundproof Style

Overall Size, L×W×H, mm	3130×1120×1920
Weight(radiator model),net,Kg	2100Kg



NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

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