



POWERED BY YUNNEI
DIESEL GENERATOR SET



Diesel



Watercooled

50
Hz

Model: CE 65

INDUSTRIAL RANGE

Powered by YUNNEI



Generating Rates

POWER RATING		PRIME	STANDBY
POWER	kVA	81	110
	kW	65	88
Rated Speed	r.p.m	1500	
Standard Voltage	V	400	
Available Voltages	V	400/230 - 230/132 - 230 V	
Rated at power factor	Cos Phi	0.8	

Ambient conditions of reference: 1000 mbar, 25°C, 30% relative humidity. Power according to ISO 3046 normative.

P.R.P. Prime Power - ISO 8528 : prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during a 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

Standby Power (ISO 3046 Fuel Stop power): power available for use at variable loads for limited annual time (500h), within the following limits of maximum operating time: 100% load 25h per year – 90% load 200h per year. No overload available. Applicable in case of failure of the main in areas of reliable electrical network.



POWERED BY YUNNEI
DIESEL GENERATOR SET



云内机械
YUNNEI MACHINERY

50
Hz

Model: CE 65

INDUSTRIAL RANGE

Powered by YUNNEI

Engine Specifications 1500 r.p.m.

ENGINE		PRP		STANDBY	
Rated Output	kW	82		90	
Manufacturer		YUNNEI			
Model		YN48ECD 90			
No. of Cylindirs and Build		4 Cycle; In-line; 4 Cylinder Diesel			
Aspiration and Cooling		Air natural cooled , TurboCharged			
Bore/Stroke	mm	108X132			
Compress the ratio		16.5			
Cooling system		Water-cooled			
Engine Speed/Frequency	rpm/Hz	1500/50HZ			
Coolant Capacity	L	18			
Starting System		Electric 24 volt DC			
Displacement	L	4.8			
Lubricant system Capacity	L	13			
Battery Volatge / Capacity		12VDC			
Governing Type	Type	Electrical			
Air Filter	Type	Dry			
Fuel Consumption	Load	100%	75%	50%	25%
	L/h	4.76	3.69	2.62	1.31

ENGINE--Industrial 4 stroke cooled diesel engine complete with air,fuel and oil filters,electric starting and charging equipment,engine protection against low water level.

COOLING--Radiator and cooling fan complete with protection guards,designed to cool engine at specified output in air temperatures upto 45 °C,radiators suitable for higher temperatures are available.Low water level protection fitted as standard.

ELECTRICAL SYSTEM--24V upto.Axial type starter motor,battery charging alternator,high capacity lead acid battery,and battery tray mounted on the generator base frame, and heavy duty interconnecting cable with terminations.

EXHAUST SYSTEM--Heavy duty industrial exhaust silencer with flexible piping.



POWERED BY YUNNEI
DIESEL GENERATOR SET



50
Hz

Model: CE 65

INDUSTRIAL RANGE

Powered by YUNNEI

Alternator Technical Specifications

ALTERNATOR BRAND		PUDELI
Model		PDL-274C
Exciter System		Self-excited, brushless
Poles	Num	4
Cooling Fan		Cast alloy aluminum
Bearing		Single,double shielded
Windings		100% copper
Connection Type		Reconnectable
Insulation Type	Class	Class H
Pitch		2/3
Amortisseur Winding		Full
Voltage Regulator		A.V.R. (Electronic)
Steady Voltage Precision		± 1%
Underspeed Protection		Standard
Overexcitation Protection		IP23
TIF (1960 Weightings)		<50

ALTERNATOR--Brushless,self exciting,self regulation,screen protected,drip proof rated in accordance with IEC60034.Voltage regulation maintained within ±0.5% from no load to full load.between 0.8 lagging and unity.All standard voltages available.

50
Hz

Model: CE 65

INDUSTRIAL RANGE

Powered by YUNNEI

Control Panel Technical Specifications

Control Panel- SMARTGEN 6110/6120

The base mounted control panel in a vibration isolated sheet steel enclosure. The control panel is equipped as follows:

- a) Instruments: Analogue Voltmeter, Hours Run Meter, Water pressure Meter.
- b) Controls: Emergency Stop Pushbutton, Voltmeter Phase Selector Switch.
- c) Control module: Standard collocation is smartgen Auto start with AMF.

Smartgen[®]

Main Features:

- Δ Automatic mains failure
- Δ Engine control, Generator protection
- Δ Built in alarms and warnings
- Δ Remote Start operation available
- Δ Fuel pump control
- Δ Mains simulation
- Δ Block heater control
- Δ Field adjustable parameters
- Δ Free MS-Windows Remote monitoring
- Δ LED displays
- Δ Configurable analogue inputs
- Δ I/O expansion capability



Protection Circuits

- WARNING
- Battery charge failure
- Low battery voltage
- SHUT DOWNS
- Fail to start
- Emergency stop
- Low oil pressure
- High engine temperature
- Over /Under speed
- Under/over generator frequency
- Failed to reach loading voltage
- Electrical trip
- Generator over current

Instruments

- ENGINE
- Engine speed
- Oil pressure
- Coolant temperature
- Run time
- Battery volts
- TOR
- Voltage (L-N)
- Current (L1-L2-L3)
- Frequency
- Mains
- Voltage (L-L, L-N)



POWERED BY YUNNEI
DIESEL GENERATOR SET

50
Hz

Model: CE 65
INDUSTRIAL RANGE
Powered by YUNNEI

Generating Sets Standard Features

Three phase four wire, output voltage 400V/230V, 50HZ, between 0.8 lagging, protection capability according with the standard of NAME1 and IP23.

General Features:

- Δ Oil and fuel filter fitted, water separator
- Δ Lube-oil drain valve fitted
- Δ Electric Starter Charge motor 24 V.D.C
- Δ Water-cooled
- Δ 8-hours operation base tank
- Δ Auto start
- Δ Optional soundproof and weatherproof canopy
- Δ 3 pole MCCB Delixi breaker
- Δ Operation & Maintenance manual
- Δ Special Integrated Steel Base tank and sprayed overall in gloss enamel paint

Voltage Regulation:

- Voltage regulation maintained within ±0.5%
- Between 0.8 and 1.0 lagging and unity
- From no load to full load
- At speed droop variation upto 4.5%

Frequency Adjustable Ratio:

Change load from 0-100%, within 1.0% (electric speed regulator), within 4.5% (mechanical speed regulator)

Frequency Undulation:

- Load from 0-100%, frequency undulation within 0.25%
- No load wire volts max undulation ratio\ within 1.8%
- Three Phase balanced load in the order of 5%
- Effect factor of Telecom
- TIF better than 50
- THF to IEC60034 Part 40 better than 2%



POWERED BY YUNNEI
DIESEL GENERATOR SET

50
Hz

Model: CE 65

INDUSTRIAL RANGE

Powered by YUNNEI

Soundproofed Version Features

Robust Corrosion Resistant Construction

- Δ Black finish stainless steel lock and hinges
- Δ Body made from steel components treated with polyester powder coating

Excellent Access for Maintenance

- Δ Two large doors on each side
- Δ Radiator fill access plate
- Δ Lubrication oil and cooling water drains pipes to exterior of the enclosure

Security and Safety

- Δ Control panel viewing window in a lockable access door
- Δ Emergency stop push button (red) mounted on enclosure interior
- Δ Cooling fan and battery charging alternator fully guarded
- Δ Exhaust silencing system totally enclosed for operator safety





POWERED BY YUNNEI
DIESEL GENERATOR SET

50
Hz

Model: CE 65
INDUSTRIAL RANGE
Powered by YUNNEI

Generating Sets other Features

Generating Sets Optional Features

- Δ Low fuel level alarm shutdown
- Δ Automatic Fuel Filling System
- Δ Engine oil feeding and drain pump
- Δ Auto Transfer Switch(ATS)
- Δ Parallel control panels
- Δ Circuit Breaker MCCB & ACB
- Δ Remote Control Panel
- Δ Weatherproof/soundproof Canopy
- Δ Trailer type Gensets

Quality Standards

- ISO9001:2000, ISO14000, ISO3046
- ISO8528 BS4999
- BS5514, AS1359, ICE34
- CE Compliance

Gensets Dimensions & Weight

- Open type:LxWxH (mm) Net Weight Kgs
- 1750*970*1530, 980Kgs
- Silent type:LxWxH (mm) Net Weight Kgs
- 2450*1080*1770, 1220Kgs