

Model: CDS-125KT

Applications:

Home, Buildings, Hospitals, Train station,
Bank, Telecom, Mining, Military, Outdoor projects, etc.



Features and benefits

Tightly structure, excellent design and craft
Excellent cooling system, reliable performance under the harshest conditions (ambient temperature up to 40 and altitudes up to 1000m)
Self-diagnostic capability simplifies troubleshooting
LCD display shows system status and setup information

Automatic voltage regulator protects your sensitive electronics from harmonic distortion and unstable power quality
Soundproof type: Very quite running-75dB(A)at 23ft(7m) at normal load.
Enclosed muffler for added quietness
Service and maintenance accessible through easy-latch side service door

Generator data

Diesel Generator CDS-125KT (three phase)

Prime Power (kw/kva)	90/113
Standby Power (kw/kva)	100/125
Rated Voltage (V)	400/230
Voltage Recovery Time	1S
Rated Current (A)	162
Rated Frequency (Hz)	50
Frequency Recovery Time	5S
Wave Distortion	5%, sine wave
Running Noise db(A)/7m(Silent type)	75
Battery capacity (V-Ah)	24V 100Ah
Open Type-Dimension (L*W*H) (mm)	2135*790*1455
Open Type-Weight (kg)	1135
Soundproof Type- Dimension (L*W*H) (mm)	2800*1100*1600
Soundproof Type-Weight (kg)	2865
Fuel Tank Capacity(L)	180
Continuous Running Time(hr.)	8

Engine specifications

Engine

Main features:

- Six-cylinder, water-cooled, in-line diesel engine
- Efficient fuel system for max power output and durability
- Large-capacity air cleaner
- Cost effective, fuel efficient and reliable performance
- Functional engine with compact structure
- Excellent after-sales service and sufficient spare parts supplying
- Easy installation and ready access for routine maintenance

Technical data

Model	6BTA5.9-G2
Engine brand	Cummins
Output Power (kw)	106
Cylinder No. & Config.	6, in-line
Combustion System	direct injection
Compression Ratio	17.0:1
Displacement (L)	5.9
Bore X Stroke (mm)	102*120
Engine Speed (r/min)	1500
Speed Governing	Electronic
Starting System	24V DC Electric
Filter System	Dry oil filter/Fuel filter/Oil filter
Cooling system	Water-cooled
Coolant capacity (L)	29
Fuel Consump. (g/kw-h)	211
Oil Capacity (L)	16.3

Alternator specifications

Alternator

Main features:

- Advanced automatic voltage regulator (AVR) control for trouble-free operation under the most demanding conditions
- 2/3 pitch winding as standard, to avoid excessive neutral currents
- Single or two bearing construction with dynamically balanced rotor and sealed-for-life bearings
- Easy access for installation and maintenance IP23 as standard
- Self-excited control system
- Resist of corruption of oil and acid

Technical data

Model	GPI274D
Alternator brand	Global Power
Rated Power (kw)	90
Excitation System	Brushless, self-exciting
Voltage Regulation Mode	AVR
Connection Type	3phase,4wires,"Y" connection
Pole No.	4
Rotation Speed (r/min)	1500
Temperature Rise ()	125
Insulation class	H
Voltage Regulation (0 load)	95% 105%
Voltage accuracy	± 1%
Protection Grade	IP23
Telephone Influence Factor	TIF 50
Harmonic Coefficient	THF 2%

Control system

HGM410 controller

Main features:

Using microprocessor as a core, graphics LCD with big screen and backlight, key touch for operation

Security password-protected programming levels

All parameters use digital modulation, with higher reliability and stability

Built-in speed/frequency detecting units can accurately judge the states such as crank success and over speed



Power supply range is wide, accommodating to different starting battery voltage environment

Built-in watch dog can never be dead halt, ensuring smooth program execution

Modular configuration design, inserted type connection terminals, flush type installation, compact structure, easy installation

Precision measure and display of:

- Generator voltage
- Generator current
- Generator frequency
- Generator active power (kW)
- Generator inactive power (kW)
- Generator apparent power (kVA)
- Generator power factor
- Generator starts count
- Generator hour count
- Cumulate electric energy (kWh)
- Generator temperature
- Generator pressure
- Start battery voltage

Protection:

- Emergency stop
- High water temperature
- Low oil pressure
- Over speed
- Under speed
- Loss of speed signal
- Generator over frequency
- Generator under frequency
- Generator over voltage
- Generator under voltage
- Generator over current
- Fail to start
- Auxiliary inputs