



Y-C200

Prime Power: 160KW/200KVA Standby Power: 176KW/220KVA Voltage: 400VAC

Powered by Cummins 6CTAA8.3-G2 Engine

Genset Performance

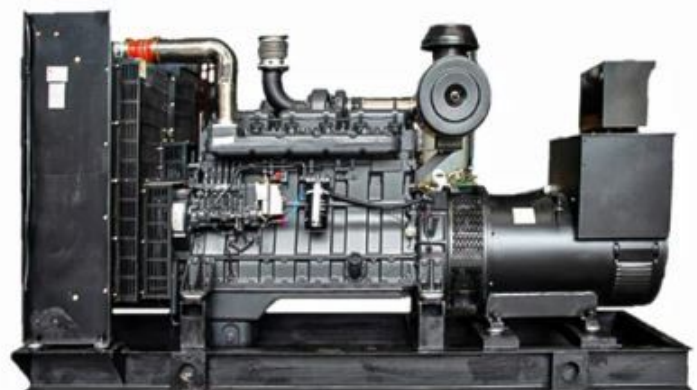
- 230/400VAC, 50Hz, 0.8PF, 3 Phases 4 wires
- Frequency drop $\leq 3\%$
- Voltage regulation $\leq 0.3\%$
- The steady state frequency $\leq 0.5\%$
- The steady state voltage deviation $\leq \pm 1\%$
- The transient frequency deviation $\leq +10\% \leq -15\%$
- The transient voltage deviation $\leq +20\% \leq -15\%$
- Frequency recovery time $\leq 3S$
- Voltage recovery time $\leq 1S(\text{Voltage} \pm 3\%)$
- THF (Telephone Harmonic Factor) < 3
- TIF (Telephone Influence Factor) < 50
Comply to Standard NEMA MG1-22.43
- Built-in vibration isolator with high performance on shock absorption.

Standard Configuration

- Cummins Engine
- Brushless synchronous alternator
- Intelligent controller
- 40°C standard ambient temperature (50°C Optional)
- Molded case circuit breaker (3P)
- Float battery charger
- Battery connect wire
- Steel base frame
- Silencer, bellows, exhaust bend
- Manual book and files

Optional Items

- Starting batteries
- Fuel tank
- Oil-water separator
- Sensor for low coolant level, low fuel/oil level
- Automatically monitoring & controlling system of city power
- Coolant heater
- Oil heater
- Heat exchanger--Water cooled tower system
- Soundproof canopy
- Trailer
- S395 soundproof canopy
- Design and construction of environmental protection
- Engineering for the Genset room



Equipment Instruction

Diesel Engine

- Model: 6CTAA8.3-G2
- Construction: Adopt forged steel camshaft and crankshaft, High strength cylinder block design, plenty parts cast on the Cylinders, stiffness strong, high pressure resistant capacity, longer service life.
- Advanced design and superior manufacture: Adapt to harsh severe work condition, high strength and has heavy loading work capacity.
- Fuel system: Rotator high pressure fuel pump, lower fuel consumption, and reduce noise effectively.
- Environment: The engine can work normally under the following conditions without de-rating:
 - A. 1800r/min engine--altitude less than 1500m (5000ft), ambient temperature less than 40 °C(104° F).
 - B. 1500r/min engine--altitude less than 1310m (4300ft), ambient temperature less than 40 °C(104° F)

But engine working environment conditions exceed above, the engine output power will de-rate 4% as altitude increase each 300m(1000ft) at the altitude is higher than 1500m (5000ft), Also it will de-rate 2% as temperature increase every 11 °C(1% de-rating ,when temperature increase each 10° F). in the ambient temperature is higher than 40°C(104° F).



Alternator

- Optional brands **Stamford / Leroy Somer / Copy Stamford**
- Brushless, 4 pole rotating magnetic field, single bearing with protective cover.
- Insulation: H Class.
- IP Class: IP23
- Cooling system
- AC exciter, rotate rectifying
- Rotor and exciter made with high temperature insulating resin, to satisfy tough environment.
- Optional Models: UCI 274H / TAL-A 44M/ ZFLY 274H
- Sealed with advanced lubricating grease to prolong life of bearing.



Intelligent Control System

Standard Meters

- 3 phases voltage: U_a, U_b, U_c
- Frequency F1
- Apparent power PR
- Power factor PF
- Coolant temperature WT
- Temperature °C display
- Oil pressure OP
- Engine speed
- 3 phases current: I_a, I_b, I_c
- Active power PA
- Power factor PF
- Temperature °C display
- KPa/Psi/Bar display
- Battery voltage V
- Running Hour
- Starting timer:(999999)



Standard Protection Function

Genset Protection

- Programmable I/O signal
- Emergency stop

Engine Protection

- Stop for over speed
- Low oil pressure
- High Coolant temperature
- Sensor fail
- Alarm for low/high battery voltage
- Low battery voltage
- Fail to start/Cranking fail

Alternator Protection

- Over Voltage
- Over current
- Voltage signal lost
- Over Voltage
- Over frequency
- Under frequency

Control System Components

- Manual/auto/stop/start
- Setting button
- Fault status indicators
- Screen menu selection button
- Emergency stop button
- Digital displayer



Communication Interface (Option)

- International standard MODBUS communication protocol RS232/ RS485 is suitable for remote control and monitor; It is easy integrated with SCADA;.

Notes: Above data of controller comes from Y-C200. Customized solutions is available as required.

Data sheet of Genset

Genset

Model	Y-C200
Prime Rating (kw)	160
Standby Rating (kw)	176
Rate voltage(V)	400
Rate current(A)	289
Power factor	0.8
Frequency(Hz)	50

Engine

Engine Model	6CTAA8.3-G2
Gross Engine output-Prime (kw)	183
Gross Engine output-Standby (kw)	203
Bore * stroke (mm)	114*135
Cylinders and structure	6 In line
Displacement(Liter)	8.3
Compression Ratio	18:1
Intake way	Turbo Charge,Water-Air Intercool
Max intake resistance (KPa)	6.35
Air intake (m3/h)	659
Max exhaust back pressure (KPa)	10.2
Exhaust gas flow (m3/h)	1728
Exhaust temp (°C)	580
Cooling way	Water Radiator & Fan
Fan exhaust flow (m3/min)	380
Coolant capacity (L)	34
Highest water temperature(°C)	100
Minimum air opening to room (m2)	1.3/1.1
Thermostat range (°C)	83-95
Max oil temperature (°C)	121
Lubrication system oil capacity (L)	23.8
Rate load fuel consumption(L/H)	45
Standard Governor/Class	Electronic

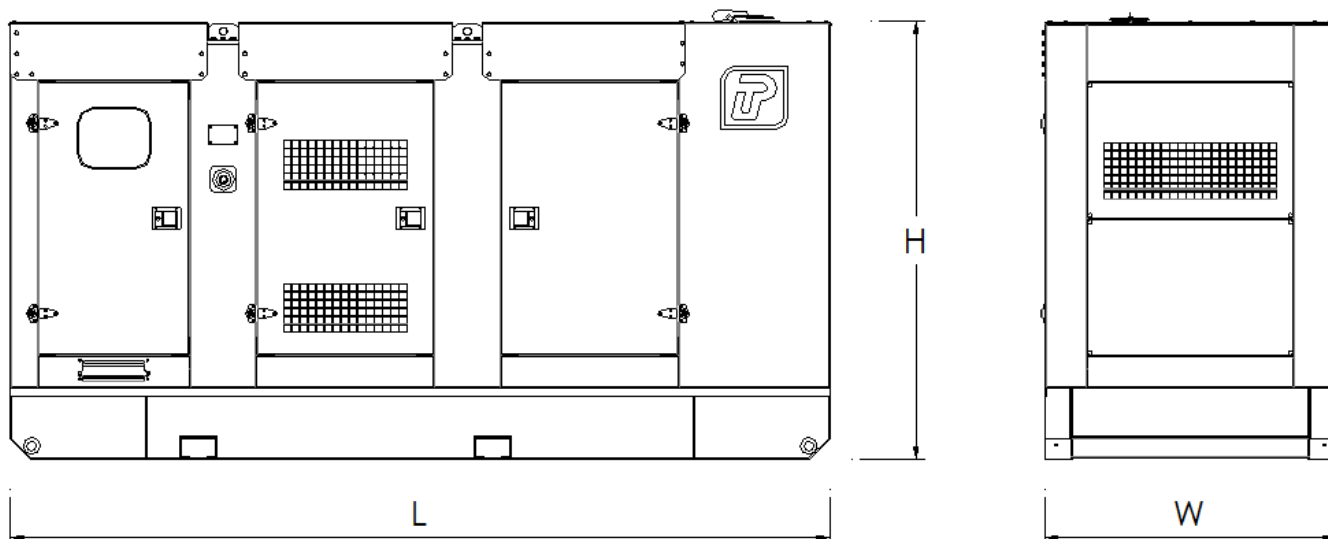
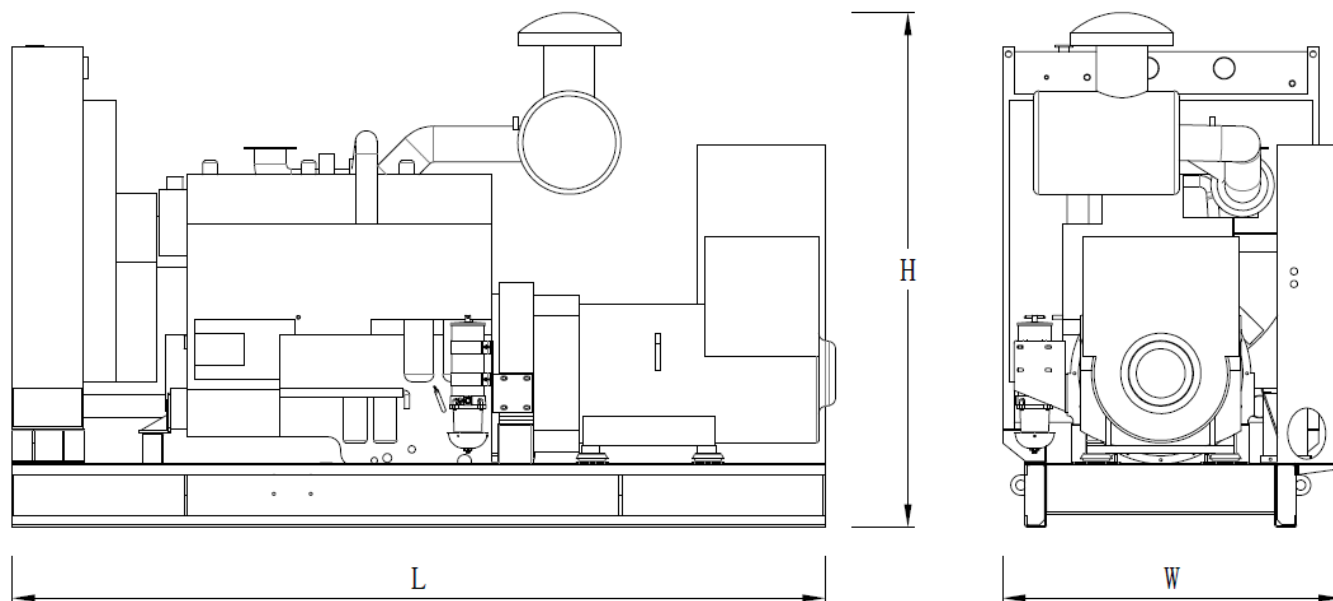
Alternator

Rated Voltage(V)	400/230
Output Way	3 Phases, 4 wires
Rated power factor	0.8
Exciter	Brushless, Self-exciter
Max voltage regulation	±1%
Model	UCI 274H / TAL-A 44M/ ZFLY 274H
Protection class	IP21-23
Insulation class	H

Controller

Brand	DEEPSEA or MEBAY
-------	------------------

Dimension and Weight



Type	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	2550*1112*1443	1800	315
Silent Type	3500*1245*2052	3060	550

Contact Us

FUJIAN ZFLY POWER GENERATION CO.,LTD

ADDRESS: ROOM 201, NO.2, JINYE ROAD, TIEHU VILLAGE,
CHENGYANG TOWN, FUAN CITY, FUJIAN PROVINCE, CHINA

Danlly Zha
General Manager-Sales
Cell : +86 13983034287
Email: danlly@zflypower.com
www.zflypower.com