

Y-C400

Prime Power: 320KW/400KVA Standby Power: 360KW/450KVA Voltage: 400VAC

Powered by Cummins NTAA855-G7A Engine

Genset Performance

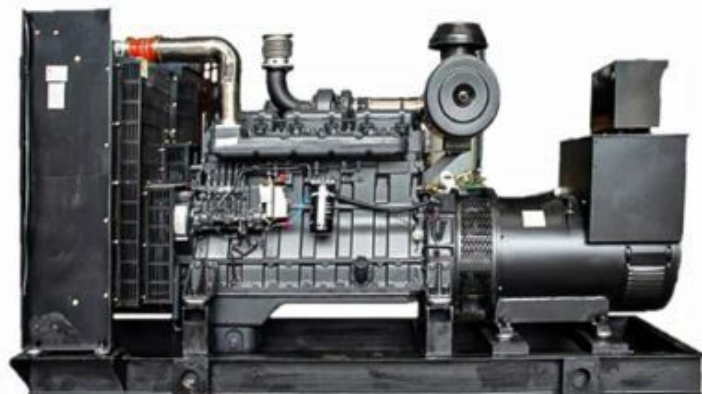
- 230/400VAC, 50Hz, 0.8PF, 3 Phases 4 wires
- Frequency drop $\leq 3\%$
- Voltage regulation $\leq 0.3\%$
- The steady state frequency $\leq 0.5\%$
- The steady state voltage deviation $\leq \pm 1\%$
- The transient frequency deviation $\leq +10\% \leq -15\%$
- The transient voltage deviation $\leq +20\% \leq -15\%$
- 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
- 20GP or 40HQ container type canopy
- Design and construction of environmental protection
- Engineering for the Genset room



Equipment Instruction

Diesel Engine

- Model: **Cummins NTAA855-G7A**
- Construction: replaceable wet type cylinder block has excellent radiation. Mature standard spare parts commonly apply to other engine in this series. Cylinder block and head will have no fault with the designment of internal oil passage and compact structure
- Cooling system: Adopt gear centrifugal water pump to cool down water temperature. With large flow channel designment, it has good cooling performance;
- Fuel system: Cummins patented technology (PT) fuel system optimizes combustion and reduces emission;
- 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: HCI 444F / TAL-A 47A / ZFLY 444F
- 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 Func-

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)

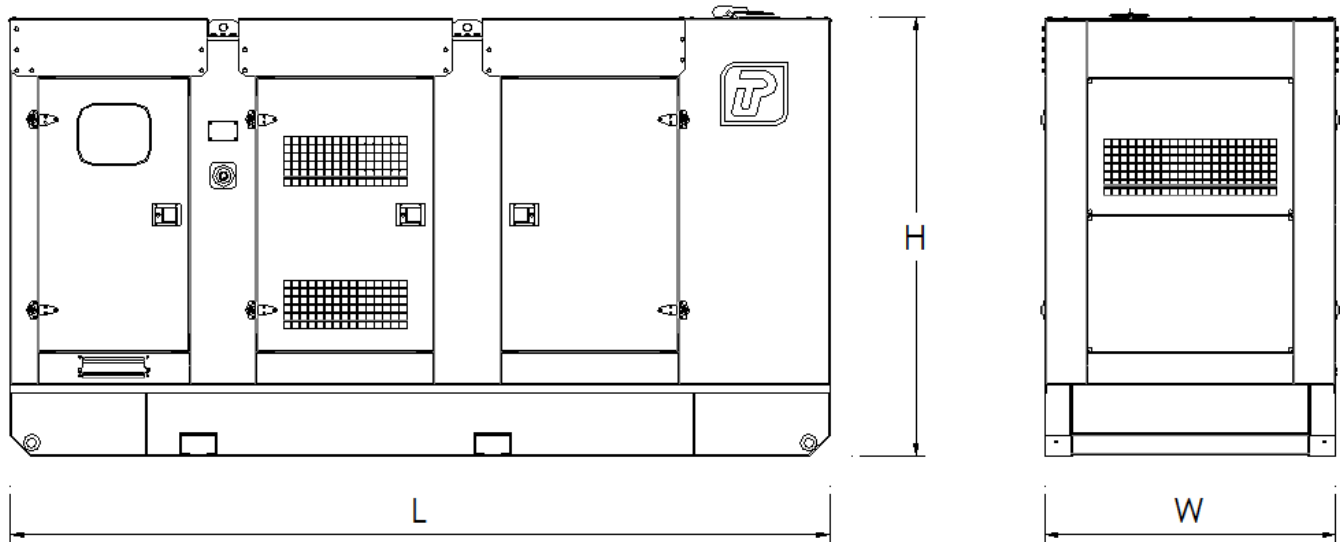
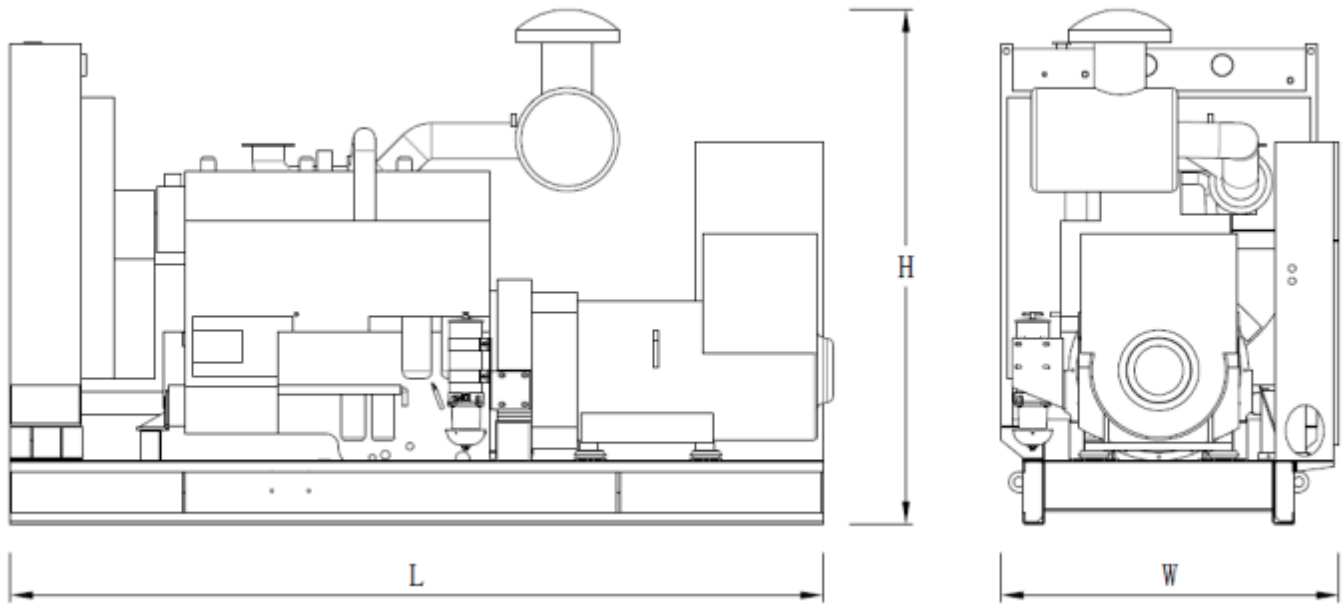
- International standard MODBUS communication protocol RS232/ RS485 is suitable for remote control and monitor; It is easy integrated with SCADA;

Notes: Above data of controller comes from Y-C400. Customized solutions is available as required

Data sheet of Genset

Genset	
Model	Y-C400
Prime Rating (kw)	320
Standby Rating (kw)	360
Rate voltage(V)	400
Rate current(A)	577
Power factor	0.8
Frequency(Hz)	50
Engine	
Engine Model	NTAA855-G7A
Gross Engine output-Prime (kw)	377
Gross Engine output-Standby (kw)	407
Bore * stroke (mm)	140*152
Cylinders and structure	6 In line
Displacement(Liter)	14
Compression Ratio	14:1
Intake way	Turbocharged/Air-Air intercooler
Max intake resistance (KPa)	6.2
Air intake (m3/h)	1840
Max exhaust back pressure (KPa)	10
Exhaust gas flow (m3/h)	4151
Exhaust temp (°C)	440
Cooling way	Water Radiator & Fan
Fan exhaust flow (m3/min)	618
Coolant capacity (L)	66
Highest water temperature(°C)	96
Minimum air opening to room (m2)	2.4/1.6
Thermostat range (°C)	82-94
Max oil temperature (°C)	121
Lubrication system oil capacity (L)	38.6
Rate load fuel consumption(L/H)	90.8
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	HCI 444F / TAL-A 47A / ZFLY 444F
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	3255*1391*1710	3000	-
Silent Type	3950*1400*2115	4400	600

Contact Us

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