

## Y-C300

Prime Power: 240KW/300KVA Standby Power: 264KW/330KVA Voltage: 400V Powered by Cummins NTA855-G1A Engine

## **Genset Performance**

	230/400VAC,	50Hz.	0.8PF. 3	Phases 4	wires
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Frequency drop ≤3%
 Voltage regulation ≤0.3%
 The steady state frequency ≤0.5%
 The steady state voltage deviation ≤±1%

The transient frequency deviation ≤+10% ≤-15%The transient voltage deviation ≤+20% ≤-15%

■ Frequency recovery time ≤3S

■ Voltage recovery time ≤1S(Voltage±3%)

THF (Telephone Harmonic Factor) <3</li>
 TIF (Telephone Influence Factor) <50</li>
 Comply to Standard NEMA MG1-22.43

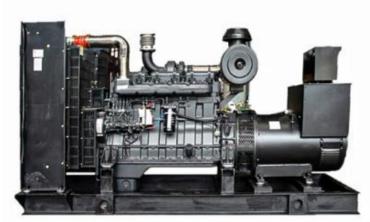
Built-in vibration isolator with high performance on shock absorption.

# 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**

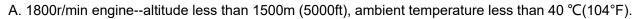
- Starting batteries
- Fuel tank
- Oil-water separator
- Sensor for low coolant level, low fuel/oil level
- Automatically monitoring & controlling system of city power
- Coolant heater
- Oil heater
- Heat exchanger--Water cooled tower system
- Soundproof canopy
- Trailer
- 20GP or 40HQ container type canopy
- Design and construction of environmental protection
- Engineering for the Genset room



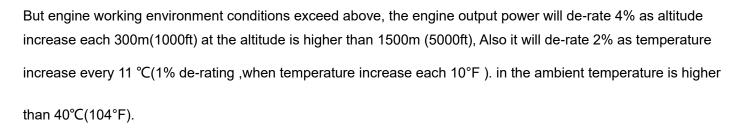
# **Equipment Instruction**

## **Diesel Engine**

- Model: Cummins NTA855-G1A
- Structure: 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:



B. 1500r/min engine--altitude less than 1310m (4300ft), ambient temperature less than 40 °C(104°F)





- 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 satify tough environment.
- Model: HCI 444D / TAL-A 46F / ZFLY 444D
- Sealed with advanced lubricating grease to prolong life of bearing.





# **Intelligent Control System**

#### **Standard Meters**

- 3 phases voltage: Ua, Ub, Uc
- Frequency F1
- Apparent power PR
- Power factor PF
- Coolant temperature WT
- Temperature °C display
- Oil pressure OP
- Engine speed

- 3 phases current: La, Lb, Lc
- 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

#### **Engine Protection**

- Stop for over speed
- Low oil pressure
- High Coolant temperature
- Sensor fail

#### **Alternator Protection**

- Over Voltage
- Over current
- Voltage signal lost

#### **Control System Components**

- Manual/auto/stop/start
- Setting button
- Fault status indicators

- Emergency stop
- Alarm for low/high battery voltage
- Low battery voltage
- Fail to start/Cranking fail
- Over Voltage
- Over frequency
- Under frequency
- Screen menu selection button
- Emergency stop button
- Digital displayer



#### **Communication Interface**

### (Option)

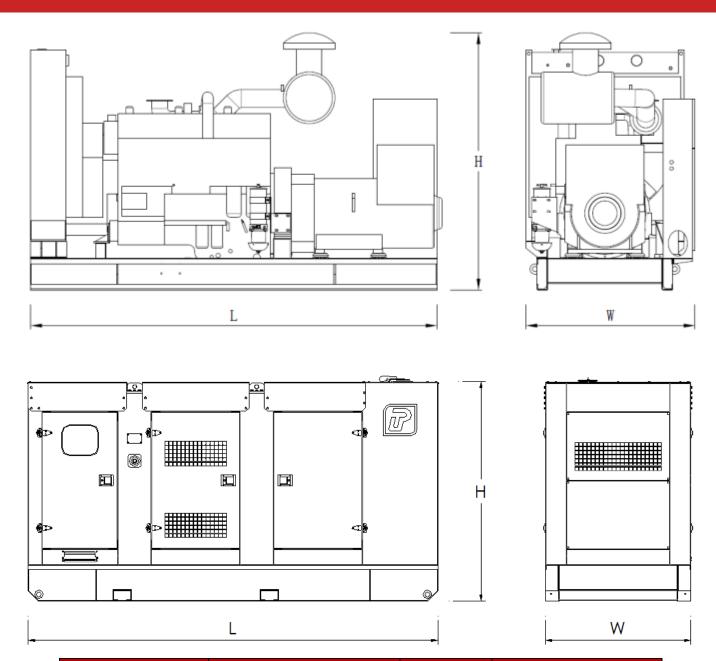
International standard MODBUS communication protocol RS232/ RS485 is suitable for remote control and monitor;
It is easy integrated with SCADA;

Notes: Above data of controller comes from Y-C300. Customized solutions is available as required

# **Data sheet of Genset**

Model	Y-C300					
Prime Rating (kw)	240					
Standby Rating (kw)	264					
Rate voltage(V)	400					
Rate current(A)	397					
Power factor	8.0					
Frequency(Hz)	50					
Eng	ine					
Engine Model	NTA855-G1A					
Gross Engine output-Prime (kw)	264					
Gross Engine output-Standby (kw)	291					
Bore * stroke (mm)	140*152					
Cylinders and structure	6 In line					
Displacement(Liter)	14					
Compression Ratio	14.5:1					
Intake way	Turbocharged/Water-Air intercooler					
Max intake resistance (KPa)	6.2					
Air intake (m3/h)	1271					
Max exhaust back pressure (KPa)	10					
Exhaust gas flow (m3/h)	2974					
Exhaust temp (°C)	484					
Cooling way	Water Radiator & Fan					
Fan exhaust flow (m3/min)	480					
Coolant capacity (L)	66					
Highest water temperature(°C)	96					
Minimum air opening to room (m2)	2.2/1.5					
Thermostat range (°C)	82-94					
Max oil temperature (°C)	121					
Lubrication system oil capacity (L)	38.6					
Rate load fuel consumption(L/H)	61.3					
Standard Governor/Class	Electronic					
Alteri	nator					
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 444D / TAL-A 46F / ZFLY 444D					
Protection class	IP21-23					
Insulation class	Н					
Controller						
Brand	DEEPSEA or MEBAY					

# **Dimension and Weight**



Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	3070*1347*1694	2550	-
Silent Type	3950*1400*2115	3950	600

## Contact Us

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